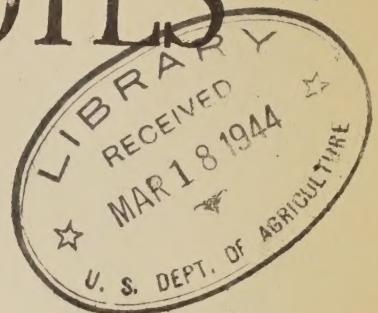


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AGRICULTURAL LIBRARY NOTES



VOLUME 4

JANUARY - DECEMBER

1929

Edited by Claribel R. Barnett,
Librarian, United States Department of Agriculture

ISSUED MONTHLY
BY THE

UNITED STATES DEPARTMENT OF AGRICULTURE LIBRARY
WITH THE COOPERATION OF THE LAND GRANT COLLEGE
AND STATE AGRICULTURAL EXPERIMENT STATION LIBRARIES

WASHINGTON
D.C.

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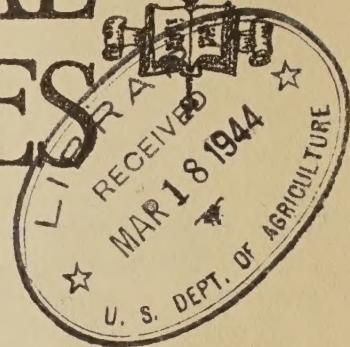
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Vol. 4.

January-February, 1929

No. 1-2.

AGRICULTURAL LIBRARY NOTES

With this issue, Agricultural Library Notes begins its fourth volume and fourth year, it having been begun in January, 1926. It was started on the recommendation of the Agricultural Libraries Section to serve as a medium of communication and cooperation among agricultural libraries and with the hope that all would contribute to its pages. A glance through the volumes of the past three years will show that this hope has been only partially realized, as comparatively few libraries have sent articles, notes, or enquiries. In connection with this new volume an earnest plea is made for increased cooperation. Every library must have something to contribute or some queries to propound. The Editor would also appreciate some expression of opinion from the readers of Agricultural Library Notes as to whether certain regular features are found useful. For example, are the lists of new books, the lists of mimeographed publications, and lists of duplicates useful? Suggestions as to material which should or should not be included will be welcomed.

AGRICULTURAL LIBRARIES SECTION MEETING

In connection with the American Library Association conference in Washington, May 13-18, it has been decided to hold two meetings of the Agricultural Libraries Section. The dates of the meetings are still tentative but it is probable that the first will be held Monday morning, May 13, at 10 a. m., and the second on the afternoon of the following day, May 14, at 2:30 p. m.

The first meeting is to be devoted to the United States Department of Agriculture and its libraries, and their relation to other agricultural libraries of the country. The meeting will probably be opened with a paper by Miss C. R. Barnett, Librarian of the Department, followed by a visit to the Department Library and to any of the branches in which the members of the Section are interested.

The second session will consist of an informal round-table discussion at which questions will be brought up for discussion as chosen by the members of the Section. Members of the Section are urged to send to the Chairman or to the Secretary of the Section, the questions which they would like to have discussed and to send them as soon as possible in order that arrangements may be made for having the questions taken up satisfactorily at the meeting.

It is hoped that there will be a large attendance at the meeting.

Mary G. Lacy, Secretary,
(Librarian, Bureau of Agricultural Economics, U. S. Department of Agriculture)

Mary E. Baker, Chairman
(Librarian, University of Tennessee)

SCHOLARSHIPS AVAILABLE FOR LIBRARIANS

The Carnegie Corporation of New York recently announced through the press that it has set aside a fund for a limited number of appointments for scholarship grants to persons preparing for library work. The fund has been provided to enable persons with previous experience in library work to pursue a year of study and research in library problems. The work will be carried on in connection with an educational institution recognized as appropriate for supervising the study. Each student will be allotted \$1500 or more, the amount to vary according to the needs of the individual. If warranted the corporation will renew the amount for a second year. Applicants should write to the Advisory Group on Library Scholarship Grants, Carnegie Corporation, 522 Fifth Avenue, New York City, for a circular giving the points on which information should be supplied when making application for a grant. Application for scholarship grants for the school year 1929-30 should be filed before April 1, 1929. The Advisory Group and the Carnegie Corporation will act on the applications before May 1 and applicants will be notified as soon as possible thereafter.

DIVISION OF LIBRARY INSTRUCTION - UNIVERSITY OF MINNESOTA

A Division of Library Instruction was started at the University of Minnesota in the fall of 1928 under the direction of Mr. Frank K. Walter, Librarian of the University. By this action the University of Minnesota became the fifth state supported university to establish such a division or school. The four other universities, in the order of establishment of similar projects, are Illinois, Washington, California, and Michigan. Possibly one of these schools will sometime give a special course in agricultural library work.

HOME STUDY COURSES IN LIBRARY SERVICE

Columbia University, New York City, has recently issued a circular describing the Home Study Courses in Library Service which are being offered by the Department of University Extension of the University. Following is a list of the courses: Cataloguing, Classification, Library Administration, Library Records, Library Handwriting, School Library Administration, Reference Books, Principles and Practice of Book Selection for Library, American Government Publications, Business Library Administration, Library Service to Children, Children's Literature.

RURAL LIBRARY EXTENSION CONFERENCE

"A rural library extension conference is being called by the American Library Association for March 26 in Chicago. Organizations and individuals interested in rural life (outside the library profession) are being invited, as the purpose is to bring to bear on the problem of rural library service the experience of national rural and educational agencies to develop, thru informal conference, methods of furthering the spread of books and library facilities to the many rural people now without them."

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CLASSIFICATION IN LAND-GRANT COLLEGE LIBRARIES

By Prof. Wm. H. Powers, Librarian, South Dakota State College

The recent article on classification in the Library Journal indicates considerable interest in the topic, probably a perennial interest. In spite of all that has been said, especially in the contest a few years ago between the advocates of the Library of Congress classification and the Dewey Decimal system, is there not an aspect of the subject that has been overlooked?

Have we not given rather too much attention to the logic of the matter, not sufficiently stressing the practical consideration? Logic, of course, should not be disregarded but convenience is itself logic. In any case, a working scheme will at best only approximate to a philosophical ideal. Many persons think that neither logic nor convenience justifies the separation of language and literature.

If convenience be the test, is it not obvious that the Dewey system never was suited to any library? In this library, we find a good many major classes not used at all and others so subdivided as to pass the bounds of practical use. Most public librarians would doubtless make the same statement though they would have in mind different classes.

The much boasted development of certain classes in the Dewey system from this point of view is a delusion. Nothing can be said in favor of a classification for agriculture which requires the use, in most cases, of six figures without counting the decimal point. The elaboration of the 620's is even worse. Perhaps the elaboration has been made on a false assumption regarding the utility of minute subdivisions, but for those who wish minute subdivisions, surely a workable scheme should be devised.

Is it not true, however, that a general scheme cannot be satisfactory to all libraries, both large and small, both general and technical? A scheme to permit a wide use should possess a large degree of elasticity. Small libraries should be able to select; technical libraries should be able to omit and add without seriously disturbing the system.

If such elasticity cannot be obtained, does it not follow that every group, if it is to possess a satisfactory plan, will have to work out its own salvation? To be specific, should not the section of agricultural librarians tackle the job of constructing a scheme to suit the libraries of the Land Grant Colleges? The objection is obvious, that to adopt a new scheme is practically impossible because of the expense of making the change. But our libraries are seemingly entering on a period of great expansion. A careful estimate of costs might indicate that it would be cheaper to devise a scheme really adapted to our needs than to continue with the clumsy seven-place Dewey system.

Our year of experience with an abridged classification for documentary material, which scheme was presented in Library Notes, October, 1927, confirms us in the belief that the scheme might, with economy and great advantages, be extended to the general collection in our libraries.

Would it do any harm to have the question of classification referred to a committee with instructions to report, either negatively or positively, at their earliest moment, either at the A. L. A. meeting, or through Agricultural Library Notes?

COLLECTION OF HORTICULTURAL CATALOGUES IN CORNELL UNIVERSITY LIBRARY

By Alfred M. S. Pridham, Instructor in Floriculture,
Cornell University

Previous to July, 1926, the collection consisted of some 500 bound volumes of horticultural catalogs. These include the more important domestic and foreign nurseries. In all, some 800 nurseries are included and while the collection is not complete for early issues, there are few vacancies for the years 1890 to 1914 inclusive.

In 1926, following some correspondence with the Federal Office at Washington, a large collection of unbound catalogs was secured, also an increased list of nurseries. In order to facilitate our work the complete collection was indexed numerically and a list prepared showing the catalogs on file both by accession number and alphabetically by the name of the nursery. The catalogs were also classified according to the material in which the nursery specialized and the country and state in which the nursery was located.

In 1927 an attempt was made to secure the catalogs of every nursery in the world which dealt with floricultural and ornamental materials. Lists of nurseries were received from the state departments of entomology and from horticultural departments of foreign countries. Lists were also secured from growers and from horticultural societies. Finally commercial lists, as the trade directory by A. T. De La Mare, were gone over. In all a mailing list of 35,000 nurseries was compiled and worked over to secure the desired catalogs.

Our present collection contains catalogs of between 3,000 and 3,500 nurseries dealing in floricultural and ornamental materials. The collection is checked once a year to keep it up to date and in addition the lists of "catalogs received" published in various periodicals are gone over and new nurseries added. The present rate of increase is 200-250 new nurseries per year.

The collection has recently been reclassified and the original mimeographed list revised to bring it up to date February, 1929. A limited number of copies are available for institutions and research workers.

Our collection is used mainly by the members of our own department, though it is available to any interested worker either in person or in a limited way through correspondence.

From the collection, lists of varieties now in trade are compiled. Since 1926 lists of Phlox, Peonies, Iris, Roses, Gladioli, Geraniums, and Delphiniums have been compiled. Descriptive lists of the varieties are also made and are of great assistance in the studies made in the test garden on varieties of the above flowers.

In brief, the Cornell collection is fairly representative but not complete for the early catalogs of both American and foreign nurseries. The collection is as complete as it is possible for us to make it with reference to nurseries selling floricultural and ornamental material today. A mimeograph of the complete collection and a classification of the current catalogs according to the material sold is available for such libraries, institutions and research workers as may be interested.

INTERNATIONAL REVIEW OF AGRICULTURE

By James G. Hodgson, Librarian, International Institute of Agriculture

The Directorate of the International Institute of Agriculture has recently decided to introduce important modifications in the contents of the International Review of Agriculture. The principal aim of these alterations is to replace isolated fragmentary items of technical, economic or legislative information by comprehensive studies based on the information available at the Institute. The Review is now published in three parts, so that in practice we now have a very near approach to the situation of 1923 - three monthly bulletins, one from each of the three special Bureaus. Only to meet the expressed desires of some members of the Permanent Committee it was decided to keep the old title and to publish the new periodicals as parts. In addition, there is to be an International Bulletin of Plant Protection, but no Bibliographical Bulletin. The titles of the various parts do not correspond exactly with any of the previous issues, which is a convenience in keeping different series separate. The titles are:

- Part 1. Monthly bulletin of agricultural science and practice.
- Part 2. Monthly bulletin of agricultural economics and sociology.
- Part 3. Monthly crop report and agricultural statistics.

How to number the volumes gave us considerable trouble, particularly since we wanted some sort of uniformity. The decision to continue the numbering of the Review itself was of course a compromise. But since the numbering had been so hopelessly confused before, it seemed that there was nothing to do but cut the Gordian knot and adopt a simple form that had some connection with the past, hence "Year 20", without any "new series" or anything else. This is the 20th year that the Institute has published periodicals and that at least is something simple and clear.

As far as continuity for the present parts with the old separate periodicals is concerned, it should be remembered that there were no "separate" issues after February, 1928, except for the Statistical Bulletin. Furthermore, the 1927 Index when issued will be only for the Review and will not give the additional paginations of the "separate". Thus only the Statistical Bulletin can be said to have had a continuous history.

As far as binding is concerned, I shall not offer any general suggestions, for obvious reasons.

The new International Bulletin of Plant Protection started in January, 1929 as volume 3. There were two issues of this in 1928, after which it was lost to view as a part of the Review, when all separates were suppressed. It really should have begun again as a new series, but I do not think that undue confusion will result if it is remembered that volume 2 has only two parts.

However, I shall be glad to answer any questions that may come up about what constitutes a set of publications of the Institute, and how any particular collections might be bound so as to harmonize with the intended future policy of the Institute.

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AGRICULTURAL OUTLOOK REPORTS OF THE U. S. DEPARTMENT OF AGRICULTURE

By Katharine Jacobs, Bureau of Agricultural Economics Library.

The Agricultural Outlook for 1929, prepared by the staff of the Bureau of Agricultural Economics, in cooperation with the representatives of the agricultural colleges and extension services of forty-five states has just been issued as Miscellaneous Publication no. 44 of the U. S. Department of Agriculture. An interesting account of this report and its distribution through the press and over the radio is given in the Official Record of the Department for February 7, 1929. In the report an attempt is made to bring together facts relating to prospective world-wide and nation-wide supply and demand conditions which are not readily available to farmers. The statements represent the national viewpoint and in many instances must be modified to meet local conditions. State and regional reports are being prepared by thirty or more states to interpret the facts of the Federal report in terms of the needs of the farmers of these respective states.

The report for 1929 is the seventh Agricultural Outlook report which has been issued. On account of its importance, a genealogy of the earlier reports may be of interest.

The first report was issued in 1923. In that year there were two mimeographed reports, one in April and the other in July. The 1924 report was issued as Miscellaneous Circular of the Department no. 23; 1925 as Miscellaneous Circular no. 38; 1926 as Miscellaneous Circular no. 65; 1927 as Miscellaneous Circular no. 101; 1928 as Miscellaneous Circular no. 19; and 1929 as Miscellaneous Publication no. 44. Each of these reports was first issued in mimeographed form by the Bureau of Agricultural Economics.

This series of outlook reports should not be confused with the series of Farmers' Bulletins 558, 560, 563, 570, 575, 581, 584, 590, 598, 604, 611, 615, 620, 629, 641, 645, 651, 665, and 672 which has the title "Agricultural Outlook". This series was published during the period September 11, 1913 to April 23, 1915 as a continuation of the Crop Reporter issued by the Bureau of Statistics and was later continued by the Monthly Crop Report issued by the Bureau of Crop Estimates. This earlier series of bulletins contains data relating to agriculture, including estimates of acreage, condition, yield, production, prices and values of crops and live stock.

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WANTS

The following bulletins are desired by the Library of the Larrode Milling Company, Detroit, Michigan:

New Jersey Agric. Exper. Station: Bul. 329. Profits and factors influencing them on 150 poultry farms in New Jersey.

Ohio State Univ. Agric. College. Extension Serv. Bul. 56. Artificial illumination for poultry houses.

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NOTES ON PERIODICALS

New Periodicals

American

Florida - Department of agriculture. Bulletin. Tallahassee, Fla. irreg. il. 8°. no. 1, new series, July, 1928.

Industrial and engineering chemistry. Analytical and American chemical society, Easton, Pa. quar. 4°. il. v. 1, no. 1, Jan. 15, 1929. \$1.50 per yr.

Oklahoma - Panhandle agricultural experiment station. Panhandle bulletin. (Panhandle agricultural and mechanical college, Goodwell, Okla.) mo. no. 1, Jan. 1929.

Rural business. (National federation of rural business, 11 South La Salle St., Chicago, Ill.) mo. 4°. il. v. 1, no. 1, Jan. 1929. 25¢ a copy.

Foreign

Commission internationale permanente des associations agricoles. Cahier international des associations agricoles. (International institute of agriculture - Commission internationale permanente des associations agricoles, Rome, Italy) 8°. mo. année 1, no. 1, Jan. 1, 1929.

Germany - Reichskuratorium für technik in der landwirtschaft. RKTL-berichte. Berlin. il. 4°. Jahrg. 1, nr. 1, April, 1928. Free.

The Island cow. 49 Halkett Place, Jersey, Channel Islands. quar. f°. il. no. 1, June, 1928. \$2.00 per year.

Rubber; an illustrated magazine for all interested in the rubber industry. 110-11 Strand, London, W. C. 2. mo. 4°. il. v. 1, no. 1, Sept. 1928. 7s. 6d. per annum.

Rubber research institute of Malaya. Quarterly journal. Kuala Lumpur, F.M.S. quar. 8°. plates. v. 1, no. 1/2, Jan, 1929.

Changes

American

American review of reviews. New York. Changed to Review of reviews with v. 79 (no. 468). Jan. 1929.

Home economist and the American food journal. New York. Changed to Practical home economics with v. 7, no. 1, Jan. 1929.

New York produce news. New York. Changed to Produce news with v. 31, no. 50, Dec. 15, 1928.

Poultry farmer... Indianapolis, Ind. Changed to Poultry farmer and rabbit breeder with v. 6, no. 11, Dec. 1928.

NOTES ON PERIODICALS (Cont'd)

Changes (Cont'd)

Foreign

Electro-farming. London. Changed to Rural electrification and electro-farming with v. 4, no. 22, Jan. 1929.

Rubber; an illustrated magazine for all interested in the rubber industry. London. Changed to Rubber & type review with v. 1, no. 4, Dec. 1928.

Tokyo. Imperial university - Government institute for infectious diseases. Scientific reports. Changed to Japanese journal of experimental medicine with v. 7, no. 1, Nov. 10, 1926.

Ceased Publication

Fox breeders' gazette. Boston. Ceased with v. 5, no. 5, Feb. 1929.

A circular has recently been issued announcing the publication of "Social Science Abstracts, A Comprehensive Abstracting and Indexing Journal of the World's Literature in the Social Sciences". According to this circular the first number of this monthly journal will be published March, 1929. The subscription price is \$6.00 per volume. The journal is published under the auspices of the Social Science Research Council by "Social Science Abstracts, Inc.", 611 Fayerweather Hall, Columbia University, New York City. Libraries interested in the journal should send for a copy of the circular which gives interesting information on the historical background of Social Science Abstracts and on the plan of publication.

An announcement has been issued by the World Agriculture Society telling of the resumption of its publication activities which were suspended during the past year. According to this announcement, arrangements have been made with the publisher of "Home Acres" whereby the World Agriculture Society will conduct a "World Agriculture Department" in that magazine instead of issuing "World Agriculture".

Ayres' American Newspaper Annual for 1929 has just been issued. As usual, it includes two separate lists of agricultural periodicals, one grouped according to classification and the other grouped according to states. It is interesting to note that 567 periodicals are included in the latter. New York publishes the largest number, namely, 44, but Illinois with 42 is a close second.

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NEW AMERICAN BOOKS

A History of Aberdeen-Angus Cattle. By Alvin Howard Sanders, Editor Emeritus of The New Breeder's Gazette. 1030 p. il. Chicago. The New Breeder's Gazette, 1928.

This book has been compiled "with particular reference to the introduction, distribution and rise to popularity of Aberdeen-Angus cattle in the field of fine beef production in North America." It is a work of reference for breeders and students of breed histories.

Turkey Production. A complete text on breeding, feeding, handling, marketing and disease control prepared for the use of turkey producers and agricultural students. By L. E. Cline, Agricultural Extension Service, University of Nevada. 301 p. il. N. Y., Orange Judd Pub. Co., 1929.

How to Treat Common Ailments of Farm Animals. 128 p. Ft. Atkinson, W. D. Hoard & Sons Co., 1928.

This pamphlet comprises veterinary answers revised and compiled from the columns of Hoard's Dairymen.

Dairy Bacteriology. By Bernard W. Hammer, Professor of Dairy Bacteriology, Iowa State College, and Chief in Dairy Bacteriology, Iowa Agricultural Experiment Station. 473 p. il. John Wiley & Sons, New York, 1928.

The material presented in this volume represents that included in the beginning course in dairy bacteriology at Iowa State College.

Dahlias. By F. F. Rockwell. 58 p. illus. N. Y., The Macmillan Co., 1929. (The Home Garden Handbooks)

Considers proper soils and fertilizers, planting, care, protection, storing the roots, propagating, and growing dahlias for profit. Like its companion Home Garden Handbooks, it is written for the homeowner who grows flowers for pleasure and beauty.

The Gardener's Colour Book. New York, Alfred A. Knopf, 1929.

A book of charts adapted by Mrs. Francis King and John Fothergill from an English work, to suit the needs and conditions of the United States.

Art in Home and Clothing. By Mabel B. Trilling, Professor of Home Economics Education, Carnegie Institute of Technology, and Florence Williams, formerly Instructor in Art, University of Chicago. 471 p. il. Philadelphia, J. B. Lippincott Company, 1928.

It is intended to serve as a textbook in art and home-economics courses or in classes in art applied to home making.

Foods and Home Making. By Carlotta C. Greer, Head of the Department of Home Economics, East Technical High School, Cleveland. 635 p. Boston, New York, etc., Allyn and Bacon, 1928.

This is an illustrated textbook written especially for young students.

American Cooperation, 1928. 2 v. Washington, D. C., American Institute of Cooperation, 1928.

This work comprises the collection of papers and discussions at the fourth summer session of the American Institute of Cooperation at the University of California, July 9-August 4, 1928.

American Produce Markets. By Henry E. Erdman, Professor of Agricultural Economics, University of California. 449 p. il. Boston, D. C. Heath & Company, 1928.

This volume deals with the marketing of that group of farm products often included under the term "produce", namely, fruits, vegetables, dairy products and poultry products. References are given in the form of footnotes and there are "Suggested Readings" after many of the chapters.

Cooperation in Agriculture. By H. Clyde Filley, Professor of Rural Economics, University of Nebraska. 468 p. N. Y., John Wiley & Sons, 1929.

This book is the development of a set of lessons which were prepared for student use at the University of Nebraska. "Suggested Readings" are given at the end of the chapters.

The Farmer's Standard of Living. By Ellis Lore Kirkpatrick, formerly Associate Agricultural Economist, Division of Farm Population and Rural Life, U. S. Department of Agriculture. 299 p. N. Y., The Century Co., 1929. (The Century Rural Life Books)

"This book is the outgrowth of several years' work of the author on the farmer's standard of living. It is intended for research workers, teachers and students and for general readers... The work is based on information resulting from scientific investigations in the field of farm family living. It represents the first attempt to bring the available facts together in book form." References are given in the form of footnotes.

Research Method and Procedure in Agricultural Economics. 2 v. N. Y., Social Science Research Council, 1928.

This is a mimeographed publication of the Advisory Committee on Economics and Social Research in Agriculture of the Social Science Research Council. The members of the Committee are H. C. Taylor, Northwestern University, Chairman; John D. Black, Harvard University; Joseph S. Davis, Food Research Institute; C. J. Galpin and L. C. Gray, Bureau of Agricultural Economics, U. S. Department of Agriculture; E. G. Nourse, Institute of Economics; and G. F. Warren, Cornell University. The constituent organizations of the Council are as follows: American Economic Association, American Political Science Association, American Sociological Society, American Statistical Association, American Psychological Association, American Anthropological Association, and American Historical Association. The objective of the Committee in preparing this work "is to summarize as much as possible of the experience of agricultural economists in planning, organizing and executing research in this field."

NEW AMERICAN BOOKS (Cont'd)

Merchandising Fruits and Vegetables, A New Billion Dollar Industry. By Wells A. Sherman, Chief Marketing Specialist, Bureau of Agricultural Economics, U. S. Department of Agriculture. 499 p. Chicago, A. W. Shaw Co., 1928.

The author states that he has attempted to make this work a "distinctly new contribution to the literature of marketing... Particular attention is given to those developments which no other author has attempted to discuss... Subjects which are adequately treated in other works on marketing or in official publications are passed over with few words or are treated from a point of view which it is hoped will be new to the reader."

Land Economics. By Richard T. Ely, Director, and George S. Wehrwein, Research Associate, Institute for Research in Land Economics and Public Utilities. 221 p. (Mimeographed). Ann Arbor, Mich., Edwards Brothers, 1928.

"Land Economics deals with the relations of man to man growing out of their relations to land and natural resources. The student of the subject, therefore, should know the basic facts about land, its physical properties and characteristics in so far as these influence human relationships. It is the purpose of this volume to supply these facts and guide the reader to further sources of information." (Preface)

The Fall of the Planter Class in the British Caribbean, 1763-1833, A Study in Social and Economic History. By Lowell Joseph Regatz, Assistant Professor of History at George Washington University, Washington, D. C. 520 p. Published for the American Historical Association by the Century Co., N. Y., 1928.

This study of the breakdown of the plantation system in the Caribbean sugar colonies of Great Britain "is based for the most part on contemporary evidence embodied in the governors' official correspondence, the Board of Trade papers, the records of organized groups in England with Caribbean interests, the findings of parliamentary committees, observations of travellers, and the writings of proprietors and their opponents. It is an expansion of a University of Wisconsin doctoral dissertation which was awarded the Justin Winsor Prize of the American Historical Association." In addition to numerous foot-note references, there is a chapter of "Bibliographical Notes" concerning many of the sources consulted in the preparation of the volume.

Planning Information Up-to-date, A supplement, 1923-1928, to Kimball's Manual of Information on City Planning and Zoning, including references on regional, rural, and national planning. Prepared by Theodore Kimball Hubbard, Special Adviser to Library, School of Landscape Architecture, Harvard University, and Katherine McNamara, Librarian, School of Landscape Architecture, Harvard University. 103 p. Cambridge, Harvard University Press, 1928.

This supplement is intended to be used in conjunction with the Manual itself. The general information given in the Manual has been brought up to date and an extensive selected bibliography has been compiled to cover the most important publications of the period 1923-1928. A combined author index to both the Manual and the Supplement has been included.

NEW AMERICAN BOOKS (Cont'd)

State Recreation - Parks, Forest and Game Preserves. By Beatrice Ward Nelson, Executive Secretary, National Conference on State Parks, Inc., 436 p. illus. Washington, D. C., National Conference on State Parks, Inc., 1928.

This reference book was made possible through the cooperation of the Laura Spelman Rockefeller Memorial.

Oh, Ranger! A Book About the National Parks. By Horace M. Albright and Frank J. Taylor. 178 p. il. Stanford University Press, 1928.

"Oh, Ranger!" is authentic in its facts and keen in the humor of its stories. It is profusely illustrated with whimsically apt sketches and a variety of well-chosen photographs."

Our Federal Lands, A Romance of American Development. By Robert Sterling Yard, Executive Secretary, National Parks Association, with a foreword by Hubert Work, former Secretary of the Interior. 360 p. il. N. Y. Charles Scribner's Sons, 1928.

Forestry in the Pacific Northwest. By Hugo Winkenwerder, Dean of the College of Forestry, University of Washington, with a foreword by Charles Lathrop Pack, President of the American Tree Association. 48 p. Washington, D. C., American Tree Association, 1928.

The Forests of Canada, Their Extent, Character, Ownership, Management, Products, and Probable Future. Canada, Department of the Interior, Forest Service. 56 p. Ottawa, 1928.

Issued in revised form for the Third British Empire Forestry Conference held in Australia and New Zealand, August-October, 1928.

Trees and Forests of Western United States. By Edward John Hanzlik, Forest Service (North Pacific District), U. S. Department of Agriculture. 128 p. Portland, Oregon, Author (502 Concord Bldg.), 1928.

Based upon a series of monographs on western commercial trees, prepared for and first appearing in the Four-L-Lumber News of Portland, Oregon.

Trees and Shrubs of Minnesota. By C. O. Rosendahl, Professor of Botany, and F. K. Butters, Associate Professor of Botany, University of Minnesota. 385 p. il. Minneapolis, University of Minnesota Press, 1928.

The following quotation from the preface explains the relationship of this volume to one with a similar title issued in 1912: "Sixteen years ago, Professors Clements, Rosendahl, and Butters, of the Department of Botany of the University of Minnesota published a volume entitled 'Minnesota Trees and Shrubs' as the Ninth Report of the Botanical Survey of the state. While the contents of that report, particularly the illustrations, have been freely drawn upon, the present volume is not a second edition. The book has been rearranged, the descriptions fully rewritten when necessary, and in all cases critically checked against actual specimens of the plants themselves."

NEW AMERICAN BOOKS (Cont'd)

Enzyme Actions and Properties. By Ernst Waldschmidt-Leitz, Institut für Biochemie, Deutsche Technische Hochschule, Prag. Translated and extended by Robert O. Walter, Department of Organic Chemistry, Columbia University. 255 p. New York, John Wiley & Sons, 1929.

The Principles of Applied Zoology. By Robert A. Wardle, Professor of Zoology, University of Manitoba. 427 p. il. Longmans, Green & Co., 1929.

"Deals with the practical application of the science of animal life to everyday questions. It is international in scope and considers the applied zoological problems of almost every country."

Lectures on Plant Pathology and Physiology in Relation to Man. 207 p. il. Philadelphia, W. A. Saunders Company, 1928.

Comprises a series of lectures given in 1926-27 at the Mayo Foundation and the Universities of Minnesota, Iowa, Wisconsin, the Des Moines Academy of Medicine, Iowa, and Iowa State College. The subjects of the lectures and the names of the lecturers are as follows: Filterable Viruses, by Louis Otto Kunkel, Boyce Thompson Institute, Yonkers, N. Y.; Ecology and Human Affairs, by Henry Chandler Cowles, Professor of Plant Ecology, Chairman of the Department of Botany, University of Chicago; Some Aspects of the Fusarium Problem, by George Herbert Coons, Pathologist, Sugar Plant Investigations, Bureau of Plant Industry, U. S. Department of Agriculture; Racial Specialization in Plant Disease Fungi, by Elvin C. Stakman, Professor of Plant Pathology, and Head of Section, University of Minnesota; The Relation of Plant Pathology to Human Affairs, by Herbert Hice Whetzel, Professor of Plant Pathology, Cornell University; Some Aspects of Cellular Physiology, by Winthrop John Venleuven Osterhout, Member of Rockefeller Institute, New York City. Bibliographies are given in connection with several of the lectures.

Plant Succession and Indicators, A Definite Edition of Plant Succession and Plant Indicators. By Frederic E. Clements; Carnegie Institution of Washington. 453 pages. N. Y., The H. W. Wilson Company, 1928.

This is a combined and condensed edition of "Plant Succession" and "Plant Indicators" published by the Carnegie Institution in 1916 and 1920 respectively and embodying the results of researches carried out under its auspices. "The two books were designed to be companion volumes, the one dealing with the concepts and principles, the other with the applications of the developmental method... It has been necessary to disregard the large amount of new material as well as to omit considerable portions of the text in order to bring the two books within the compass of one volume... The comprehensive nature of the treatments makes it possible to do this without serious harm to the main themes, and especially since the portions omitted are to be expanded into as many collateral books with a full account of the researches since 1914."

Handbook of Microscopical Technique for Workers in Both Animal and Plant Tissues. Edited by C. E. McClung, Professor of Zoology and Director, Zoological Laboratory, University of Pennsylvania. 495 p. il. N. Y., Paul B. Hoeber, Inc., 1929.

NEW AMERICAN BOOKS (Cont'd)

Destructive and Useful Insects, Their Habits and Control. By C. L. Metcalf, Professor of Entomology, University of Illinois, and W. P. Flint, Chief Entomologist, Illinois State Natural History Survey. 918 p. illus. N. Y., McGraw-Hill Book Co., 1928.

"This book is intended as a text for the beginning student in entomology and also as a guide or reference book for practical farmers, gardeners, fruit growers; and others who desire up-to-date information about the many kinds of insect pests. It is the outgrowth of twenty-five years of practical entomological work in combating destructive insects, on the part of one of the authors, and fifteen years' experience in teaching classes of university students of entomology, by the other author." (Preface).

A Popular Guide to the Study of Insects. By E. Porter Felt, State Entomologist, New York State Museum. 147 p. il. New York State Museum Handbook 6. Albany, The Univ. of the State of N. Y., 1929.

Principles of Forest Entomology. By Samuel A. Graham, Associate Professor of Forest Entomology, University of Michigan, and Agent, U. S. Department of Agriculture Bureau of Entomology. 339 p. il. N. Y. McGraw Hill Book Co., 1929.

This book is intended primarily to fill the need of teachers of forest entomology for a textbook upon which to base their courses but it will be found of interest also to economic entomologists, ecologists, foresters and others engaged in growing or utilizing forest products. It shows the importance of forest entomology, describes the various insects and their effects, and outlines ways and means for the control of insects injurious to trees and plants. A bibliography classified according to chapters is given on pages 306-317.

Locusts and Grasshoppers, A Handbook for Their Study and Control. By B. P. Uvarov, Senior Assistant, Imperial Bureau of Entomology, London. 352 p. illus. London, The Imperial Bureau of Entomology, 1928.

The aim of this book is "to present a general survey of the accumulated knowledge on locusts and grasshoppers, their binomics and the theory and practice of their control." The original edition of the book was published in Russia in 1927 at Moscow, by the Central Cotton Committee, but the present English edition differs essentially from it. A bibliography is contained on pages 331-346.

Entomologie d'Haiti. By George N. Wolcott, Chef, Département d'Entomologie, Service Technique, Département de l'Agriculture et de l'Enseignement Professionnel, Port-au-Prince, Haiti. 440 p. il. 1928

This volume is in four parts as follows: Part I. Introduction: Relations, Anatomie, Physiologie et Developpement; Part II. Ecologie des Insectes; Part III. Ordres des Insects; Part IV. Entomologie pour le Fermier.

NEW AMERICAN BOOKS (Cont'd)

The Bureau of Biological Survey, Its History, Activities and Organization.

By Jenks Cameron. 339 p. Baltimore, The Johns Hopkins Press, 1929.

This volume is No. 54 in the Service Monographs of the United States Government issued by the Institute for Government Research. A bibliography, compiled by Sophy H. Powell, is included as Appendix 7.

The Bureau of Chemistry and Soils, Its History, Activities and Organization. By Gustavus A. Weber. 213 pages. Johns Hopkins Press, Baltimore, 1928.

This is a new number (no. 52) in the series of Service Monographs of the United States Government, issued by the Institute of Government Research. A bibliography is given on pages 190-211.

Wages in the United States, 1914-1927. 168 p. Published by the National Industrial Conference Board, Inc., N. Y., 1928.

"Wages in Agriculture" is the title of chapter VI.

Report of the Proceedings of the World's Dairy Congress, held in London, June 26-July 12, 1928, has now been published. It is obtainable through Arthur D. Allen, The Organising Secretary, World's Dairy Congress, 33, Gordon Square, London, E. C., England. The price is 1 sh. 5 d. It is a volume of 896 pages.

"Farm Leases Selected as Models for Use by Farm Managers, Bankers, Real Estate Men, Lawyers, and Others Concerned with the Preparation of Farm Leases", is the title of a mimeographed volume compiled by R. L. Adams, Professor of Farm Management, College of Agriculture, University of California.

"The Outlook for Market Hay in New York State" is the title of a thesis submitted to the Graduate School of Cornell University in partial fulfillment of the requirement for the degree of Doctor of Philosophy by Mather Francis Thurston, 1928. The thesis is typewritten and is in two parts - Part I. The Market Situation, and Part II. The Problem of Adjustment. Each part contains 218 pages.

"Economic Problems of Reclamation", a pamphlet of 27 pages recently issued by the Bureau of Reclamation of the U. S. Department of the Interior, consists of two articles, namely, "Economic aspects of certain reclamation projects" by Dr. Alvin Johnson, Assistant Editor, Encyclopedia of Social Science, Columbia University, and "Planned Colonies of Farm Owners", by Dr. E. C. Branson, Kenan Professor of Rural Social Economics, University of North Carolina.

The "Actes de la 1ère Conférence Internationale du Blé", held in Rome, April 25-30, 1927, have recently been published by the Institut International d'Agriculture, Rome. The report contains 602 pages.

NEW ENGLISH BOOKS

The Scientific Principles of Plant Protection. By Hubert Martin, with a foreword by Sir Daniel Hall. 316 p. London, Edward Arnold & Co. 1928.

This volume is a survey of the scientific principles underlying modern methods of control of crop pests. "References" are given at the end of each section.

British Cotton Growing. By John Summerscales. 33 p. Oldham, England, F. & G. Pollard, 1928.

Outlines briefly the need for cotton growing in the British Empire, shows in which of the Empire's lands cotton may be grown, and explains the work that has been done in such areas to develop the crop.

The Agricultural Output of Northern Ireland, 1925. 84 p. Ministry of Agriculture, Government of Northern Ireland, Belfast, 1928.

This is a report on certain statistical inquiries made in connection with the census of production taken in 1924, relating to the output of agricultural produce, with a survey of the agricultural statistics of Northern Ireland, from 1847-1927.

Modern Roadmaking, With Special Reference to Materials and Plant. By Harold Bradley and C. C. Hancock. 312 p., il. London, The Contractors Record, Ltd., 1928.

Relates to British methods of road construction.

The Motor Mechanism of Plants. By Sir Jagadis Chunder Bose, Director, Bose Research Institute, Calcutta, India. 429 p. illus. London and New York, Longmans, Green & Co., 1928.

This is a new volume in the series on the author's researches on plant-physiology.

Practical Bee-Breeding. By A. Gilman. 248 p. London and New York, G. P. Putnam's Sons, 1928.

This book, by a practical bee-keeper, is written "with the object of assisting the apiarist to a fuller understanding of his undertaking, and to offer systems and appliances that will further aid in the production of first class stock with a minimum of expense and effort."

The Economic Advance of British Co-operation, 1913 to 1926. By R. J. Twigg, with a preface by Professor E. Hall, Adviser in Studies to the Cooperative Union, London. 96 p. London, Cooperative Union, Limited, 1928.

North America, An Historical, Economic and Regional Geography. By Ll. Rodwell Jones, Professor of Geography in the University of London, and P. W. Bryan, Head of the Department of Commerce, Leicester University College. 2d ed. rev. and enl. 559 p. London, Methuen & Co., Ltd., 1928.

Report of the Food Investigation Board for the Year, 1927. By the Department of Scientific and Industrial Research of Great Britain. 123 p. London, 1928.

NEW EDITIONS

Practical Cheesemaking, A General Guide to the Manufacture of Cheese. By C. W. Walker-Tisdale and Walter E. Woodnut. 204 p. London, George Allen & Unwin, Ltd., 1928.

This book was first issued in 1917, was revised and enlarged in 1919, and has again been brought up-to-date by additions and deletions. New chapters on Lancashire and Crustless cheese are included.

Outlines of Dairy Bacteriology, written for the producers and distributors of milk and the manufacturers of milk products. By H. L. Russell, Dean of the College of Agriculture, and E. G. Hastings, Professor of Agricultural Bacteriology, University of Wisconsin. 12th ed. rev. 238 p. Madison, Wisconsin, H. L. Russell, 1928.

Horticulture, Elementary and Practical, prepared especially for those interested either in home or commercial horticulture. By George W. Hood, Horticulturist. 3d ed. rev. 382 p. Philadelphia, Lea & Febiger, 1929.

ABC and XYZ of Bee Culture. By A. I. and E. R. Root. Rev. ed. 815 p. Medina, Ohio, A. I. Root Company, 1929.

According to the preface, this new edition has been more thoroughly revised than any that has preceded it, and includes a number of new titles, such as Demaree plan of swarm-control, Food-chamber, Government aid to beekeepers, and Science of honey. It also differs from former editions in that it is more of a reference volume. At the end of a number of the articles there is a bibliography of the subject. The article on Government aid to beekeepers contains a chronological list of the principal government publications pertaining to beekeeping.

Productive Farm Crops. By E. G. Montgomery, Crop Specialist, U. S. Bureau of Foreign and Domestic Commerce. 4th rev. ed. 519 p. Philadelphia, J. B. Lippincott Company, 1928.

Tabular and other data in the text have been brought up to date in this edition, so far as recent figures are available. Analyses into jobs for eleven farming enterprises and into problems for study and discussion of corn, wheat and the clovers, are included, and minor corrections have been made throughout the book.

The Fern Allies of North America. By Willard Nelson Clute. 2d ed. 278 p. Joliet, Illinois, Willard N. Clute & Co., 1928.

The preface to this second edition states that it "has been somewhat condensed by eliminating various superfluous pages intended largely for decorative effect, and by the omission of eight color plates, but the text is exactly like that of the original edition."

Agricultural Economics. By James E. Boyle, Professor of Rural Economy, College of Agriculture, Cornell University. 3d ed. rev. 519 p. Philadelphia, J. B. Lippincott Company, 1928.

While a few changes have been made in this edition, the main plan of the book remains the same.

NEW EDITIONS (Cont'd)

Horticulture Enterprises. Edited by Kary C. Davis, George Peabody College for Teachers. 466 p. Philadelphia, J. B. Lippincott Company, 1929.

In 1919 the first edition of Horticulture was issued. Other editions were issued in 1922, 1925, and 1927. In the present volume practically all the horticultural enterprises were analyzed into jobs.

International Director of Pedigree Stock Breeders, 1928-1929. 821 p. il. London, Vernon Press, Ltd., 1929.

This is a new edition of the Directory of Pedigree Live Stock Breeders, published in 1926, enlarged by incorporating the names of the more important live stock breeders in all countries where civilized conditions obtain.

Traité des Maladies du Gros Bétail. By G. and R. Moussu. 5th ed. 1076 p. Vigot Fries, Editeurs, Paris, 1928.

BIBLIOGRAPHIES

Condensed List of Floriculture Bulletins and Books. Compiled by Victor H. Ries, Extension Specialist in Floriculture, Agricultural Extension Service, Ohio State University. 8 p. 1928.

Bibliography of Research Studies in Education, 1926-1927. Prepared in the Library Division, Bureau of Education, U. S. Department of the Interior, and issued as Bulletin 22 of the Bureau. 162 p. 1928.

Bibliography of Pulp and Paper Making, 1900-1928. Compiled by Clarence J. West, Director, Research Information Service, National Research Council. 982 p. Published by the Lockwood Trade Journal Company, N. Y., 1929, for the Technical Association of the Pulp and Paper Industry.

The references are classified under various subjects which are alphabetically arranged, some of them being subdivided. The entries under each heading are arranged alphabetically by author, or title of the article if it is anonymous. A number of references to the use of agricultural products in the industry are included.

Cotton: Partial List of Publications in English, exclusive of publications on diseases and pests and publications of the state experiment stations, 1926-1928. Compiled by Marjorie F. Warner, Assistant Librarian, Bureau of Plant Industry, U. S. Department of Agriculture. 5 p. 1929.

This list, which is issued as a supplement to this number of Agricultural Library Notes, is a continuation of the original list with the same title compiled by Emma B. Hawks and issued in 1926 as a supplement to Agricultural Library Notes, vol. 1, no. 6.

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PROFESSIONAL LITERATURE

Selective Cataloging, Catalogers' Round Table, American Library Association, July 3, 1924, by T. Franklin Currier and others, together with other unpublished and published papers and extracts. Edited by Henry Bartlett Van Hoesen, Assistant Librarian, Princeton University Library. 131 p. N. Y., The H. W. Wilson Company, 1928.

"Selective cataloging made its debut at the Saratoga Springs Conference of the American Library Association and, generally speaking, seemed to interest everyone and surprise no one. The papers read at that time, the extracts we have, before and since, combed from library literature, and the new contributions we were able to secure for this volume all show that practice was in advance of theory. Practice is individual, unstandardized, sporadic; and whatever the ultimate verdict is, it should be based on such an assemblage of practice as we have attempted to make, and on that practice tested by further practical and theoretical discussion, which we hope this collection may produce." (Preface)

Selected Articles on Interlibrary Loans. Compiled by James A. McMillen, Librarian, Louisiana State University. 88 p. N. Y., The H. W. Wilson Company, 1928.

"At the fiftieth anniversary conference of the American Library Association at Atlantic City in October, 1926, the two sessions of the College and Reference Section were devoted to a discussion of interlibrary loans. This subject was presented in all of its phases by speakers from abroad as well as from our own country and it was suggested by some that this material be printed and thus made available for all interested in this form of reference work. This volume is the result of that expressed interest and is intended to be little more than the proceedings of the meetings referred to above. Some material has been added that well supplements the text, such as the pioneer article on the subject by S. S. Green, the A. L. A. Code of Practice for Interlibrary Loans, and the statement prepared by J. I. Wyer for his forthcoming textbook on reference work which is being prepared under the auspices of the A. L. A. curriculum studies. With the further addition of the bibliography, it is hoped that this small volume will serve as a manual." (Preface)

List of Current Agricultural Periodicals and Allied Serials on File in the Library of the Bureau of Science, with a copy of the rules and a short historical description of the Library. Issued by the Library, Bureau of Science, Manila. 16 p. mimeo. Manila, 1928.

This is the fifth of the serial lists compiled by the Library of the Bureau of Science, the previous ones being on botany, medicine, pharmacy, chemistry and mineralogy. As soon as all of the desired lists on different subjects have been compiled, it is planned to combine them into one printed list. The librarian of the Bureau of Science is Mr. C. B. Perez.

A pamphlet entitled "American Fertilizer Practices, A Series of Reports Relating to the Use of Commercial Plant Food Presenting Information Obtained by a Survey Among 48,000 Farmers in 35 States," has recently been issued by the National Fertilizer Association, Washington, D. C. Part 2 of this report gives the detailed results of the survey of farm papers read by farmers which was referred to in the last number of Agricultural Library Notes. The main table in the report shows the extent to which the farmers interviewed reported that they read specified farm papers. The table is arranged by states and under each state there is a list of farm papers with figures showing the "number who read each paper, the percentage of readers of farm papers who read each paper and the percentage of all farmers interviewed who read each paper." There are 57 different papers included in the combined lists. Of this number there were 20 different papers each of which appeared only under one state. The list of those which appeared under 11 or more of the states follows. The figures following the titles show the number of states under which each paper appeared: Country Gentleman, 32; Successful Farming, 26; Farm Journal, 26; Farm and Fireside, 22; Farm Life, 20; Hoard's Dairyman, 19; Rural New Yorker, 14; Progressive Farmer, 13; Southern Ruralist, 13; Southern Agriculturist, 11; Breeders Gazette, 11.

An article entitled "Rural Library Service for Florida; Farming People Need More and Better Books," by Mrs. Ida Keeling Cresap, Librarian of the Florida Agricultural Experiment Station, University of Florida, Gainesville, appeared in the Florida Grower for February, 1929. It explains the library privileges now being offered by the General Extension Division of the University of Florida and those of the State Library Board and State Library. Though organized in 1925, the Board did not begin to function until February, 1927. A collection of 2,000 books has been given to the Board by the Florida Federation of Women's Clubs and these with additions from other sources are now available for circulation throughout the state, under certain conditions.

A pamphlet entitled "Naturalists of the Frontier. I. Jacob Boll," by Samuel Wood Geiser, is a reprint of an article in the Winter number of the Southwest Review, 1929.

In commenting in the last issue of Agricultural Library Notes on the new cornstalk paper, mention should have been made of the fact that in 1911 Circular no. 82 of the Bureau of Plant Industry, U. S. Department of Agriculture, by Charles J. Brand, entitled "Crop Plants for Paper Making," was printed on paper made from crop wastes and by-products, including corn (stalks), broom corn, rice and cotton.

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American chemical society. Journal. Scattering volumes and numbers from v. 38 to v. 48, inclusive.

American journal of agriculture and science conducted by Dr. E. Emmons and A. Osborn. Feb.-April, June-July, 1847.

American journal of public health. v. 8, no. 3; v. 10, no. 3-7, 10-12; v. 11, no. 1-2, 4-7; v. 13, no. 12; v. 15, no. 12; v. 16, no. 1-12.

American society of animal production. Record of proceedings of annual meetings. 1915, 1916, 1917, 1918, 1919, 1920, 1921, 1922.

American society of civil engineers. Transactions. v. 86, 87.

Association of official agricultural chemists. Journal. v. 2, no. 3, pt. 2; v. 4, no. 2; v. 6, no. 4; v. 7, no. 2-4; v. 8, no. 1-3, 5; v. 9, no. 1-4; index to v. 1.

Berliner beytrage zur landwirthschaftswissenschaft. Band 1-2, 3, 5. 1774-81.

Botanical gazette. v. 59, no. 5.

British association for the advancement of science. Report. 1909, 1924.

Elisha Mitchell scientific society. Journal. v. 38, no. 1-4.

Forest and stream. v. 22-23.

Gleanings in bee culture. Scattering volumes and numbers from v. 24 to v. 54, inclusive.

Great Britain. Board of agriculture. Journal. Scattering volumes and numbers from v. 21 to v. 32, inclusive.

Highland & agricultural society of Scotland. Transactions, ser. 5, v. 29, 32-35, 38-40.

Industrial and engineering chemistry. Scattering volumes and numbers from v. 9 to v. 19, inclusive.

8th International congress of applied chemistry, v. 25-29.

Irish economist, formerly Better business. v. 1, no. 2; v. 2, no. 1-2; v. 3, no. 2, 4; v. 4, no. 2-4; v. 5, no. 1-3; v. 6, no. 1-2; v. 7, no. 1, 3, 4; v. 8, no. 1.

Journal of farm economics. v. 6, no. 1; v. 7, no. 1.

Journal of home economics. Scattering volumes and numbers from v. 8 to v. 17, inclusive.

Journal of morphology. v. 31-36.

Journal of tropical medicine and hygiene. Scattering volumes and numbers from v. 25 to v. 29, inclusive.

Landscape architecture. Index to v. 1-2; v. 11, no. 4; v. 12, no. 2-3; v. 13, no. 1-4; v. 14, no. 1, 3-4; v. 15, no. 1, 2-4.

Landwirtschaftlichen versuchs-stationen. Scattering volumes and numbers from v. 85 to v. 102, inclusive.

National geographic magazine. v. 30, no. 6; v. 32, no. 4; v. 40, no. 5; v. 44, no. 3-4; v. 55, no. 3; v. 46, no. 4; index to v. 40, 43-50, 51.

New Zealand journal of science and technology. v. 1, no. 1-5.

Plant world. v. 13, no. 1; v. 14, no. 10; v. 19, no. 12; v. 20, no. 8; index to v. 20, 22.

Quarterly cumulative index to current medical literature. v. 2, no. 1-3; v. 3, no. 1-3; v. 4, no. 1-3.

Queensland agricultural journal. Scattering volumes and numbers from v. 5 to v. 26, inclusive.

DUPLICATES AVAILABLE FOR EXCHANGE (Cont'd)

Royal agricultural society of England. Journal. v. 86-88.
Scottish geographical magazine. v. 34, no. 9-10; v. 35, no. 1-2, 4-5; index to v. 37, 41.
Sloans architectural review. v. 2.
Society of chemical industry. Journal. v. 44, no. 42, 51; v. 45, no. 1-42, 44-53; title page and index to v. 45.
South Australia. Department of agriculture. Journal. Scattering volumes and numbers from v. 13 to v. 29, inclusive.
Victoria (Australia). Department of agriculture. Journal. Scattering volumes and numbers from v. 1 to v. 18, inclusive.

State Geological Publications

Alabama geological survey. Bul. 18.
Florida state geological survey. An. rept. 4th, 6th, 10th-15th.
Georgia geological survey. Bul. 23, 34.
Illinois state geological survey. Bul. 37, 42, 51.
Indiana. Department of geology and natural resources. An. rept. 2d, 21st, 34th. 1870, 1896, 1909.
Iowa geological survey. v. 27.
Louisiana. Geology and agriculture. Part 5-6.
Michigan geological and biological survey. Publication 7, 9. 1911-1912.
Minnesota geological and natural history survey. An. rept. 1st-2d. 1872-1873; Bul. 3. 1887.
The geology of Minnesota. v. 1-5 of the final report. By N. H. Winchell. 1884-1900.
Mississippi state geological survey. Bul. 17; Plants of Mississippi. 1921.
Missouri. Bureau of geology and mines. 2d ser. v. 13, 15, 21.
Nebraska geological survey. Publications, v. 2, 3. 1907, 1911.
New Jersey geological survey. An. rept. of the state geologist. 1883, 1885, 1888, 1890-1892.
Bul. 10, 14.
North Carolina geological survey. Bul. 14, 24. 1906, 1915.
North Carolina geological and economic survey. Economic paper no. 19, 20, 25, 33, 35, 37, 44, 45, 46, 52.
Oklahoma geological survey. Bul. 8. 1911; Circ. 6, Animal and plant life in Oklahoma. 1917.
Oregon. Bureau of mines and geology. Mineral resources of Oregon. v. 2, no. 1, 3. 1916.
Pennsylvania geological survey. 4th ser. Oil and gas. v. 1; 4th ser. Oil resources in coal and carbonaceous shales of Penn. By Chas. R. Fettke.
South Dakota geological and natural history survey. Circ. 26. 1926.
Tennessee state geological survey. Preliminary study of forest conditions in Tennessee. By R. Clifford Hall. 1910.
Washington. Department of conservation and development, Division of geology. Bul. 27. 1922.
West Virginia geological survey. Part 1, The living flora of West Virginia. By C. F. Millspaugh; Part 2, The fossil flora of West Virginia. By David White. 1913.
Wisconsin geological survey. Economic series, no. 7; Scientific series, no. 12, 13; Soil series, no. 11, 15, 24, 29, 30, 49.

SELECTED LIST OF MIMEOGRAPHED PERIODICAL PUBLICATIONS
of the U. S. Department of Agriculture
Revised to January, 1929

Bureau of Agricultural Economics

(Note: A separate mimeographed list of the "Crop and market reports and periodicals issued by the Bureau of Agricultural Economics" is available for distribution by the Bureau. There are included here only the mimeographed periodical publications - not the reports)

Agricultural cooperation. Issued by the Division of cooperative marketing. Semi-monthly.

Agricultural economics literature. Issued by the Library of the Bureau. Monthly.

Farm population and rural life activities. Issued by the Division of farm population and rural life. Quarterly.

Foreign crops and markets. Weekly.

State and federal marketing activities and other economic work. Weekly.

Bureau of Animal Industry

Extension animal husbandman. Issued by the Animal husbandry division. Quarterly.

Monthly record - Packers and stockyards administration.

Bureau of Biological Survey

Survey. Monthly.

Bureau of Chemistry and Soils

Review of U. S. patents relating to pest control. Issued by Insecticide Division, Chemical and Technological Research. Monthly.

Bureau of Entomology

Insect pest survey bulletin. Monthly.

Monthly letter.

Office of Experiment Stations

List of station publications received by the Office of experiment stations. Issued by the Library of the Office. Monthly.

Extension Service

Boys' and girls' 4-H club leader. Issued by Office of cooperative extension service. Monthly.

List of extension publications of the state agricultural colleges received by Office of experiment stations library. Monthly.

SELECTED LIST OF MIMEOGRAPHED PERIODICAL PUBLICATIONS (Cont'd)

Food, Drug and Insecticide Administration

Food, drug and insecticide review. Monthly.

Forest Service

Forestry - Current literature. Issued by the Library of the Bureau.

Bi-Monthly.

Forest products laboratory, Madison, Wis. - Accessions to the library.

Weekly.

Monthly report - Branch of research.

Service bulletin. Weekly.

Office of Information

Daily digest. Issued by the Press Service.

Library

Agricultural library notes. Monthly.

Bureau of Plant Industry

Agronomy - current literature. Issued by the Library of the Bureau.

Semi-monthly.

Blister rust news. Issued by Office of blister rust control. Monthly.

Botany - current literature. Issued by the Library of the Bureau.

Semi-monthly.

Cereal courier. Issued by Office of cereal crops and diseases. Three times a month.

Egyptian cotton news letter. Issued by Office of alkali and drought resistant crops. Weekly.

The Eye. Issued by Office of Horticultural Crops and Diseases. Weekly potato bulletin.

Plant disease reporter. Issued by the Office of Mycology and disease survey. Semi-monthly.

V. & F. pathologist. Issued by the Office of vegetable and forage diseases. Semi-monthly.

Weekly reports. Issued by the Office of western irrigation-agriculture.

Weekly station reports. Issued by Office of dry land agriculture investigations.

Bureau of Public Roads

Highways and agricultural engineering - current literature. Issued by the Library of the Bureau. Weekly.

Newsletter. Monthly.

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SELECTED LIST OF MIMEOGRAPHED PUBLICATIONS

of the U. S. Department of Agriculture

issued during January and February, 1929, exclusive of current issues of serials.*

Annual report of the Commissioner for the Department of agriculture for Alaska to the Secretary of agriculture. 1st, 1928. 34 p.

Bureau of Agricultural Economics

The Bureau of agricultural economics as a national service agency. By Nils A. Olsen. 14 p.

Crop and market reports issued by the Bureau of agricultural economics. 17 p. (Issued by Division of economic information)

Economic information in the Bureau of agricultural economics available for extension. By Nils A. Olsen. 6 p.

Foreign markets for agricultural products and the competition of foreign agricultural producers in our foreign and domestic markets. By Nils A. Olsen. 17 p.

Fundamental principles that must be considered in programs for handling commodity problems. By Nils A. Olsen. 9 p.

General accounts and summaries of the history of agriculture in the U. S. Comp. by Everett E. Edwards. 3 p. (Issued by Division of statistical and historical research)

Grain grading. Development and structure of grades. By R. C. Miller, W. P. Carroll, and F. G. Smith. 12 p. (Issued by Grain division)

The meat industry in the United States. A selected list of references on the economic aspects of the industry, including meat packing, published since 1918. Comp. by Minna Gill and Lillian Crans. 24 p. (Issued by the Library)

Opportunities for cooperation in local land utilization studies. By L. C. Gray. 9 p. (Issued by Division of land economics)

Policies and practices of cooperative marketing associations relative to organizing, standardizing, merchandising. A series of readings collected by the Division of cooperative marketing for the use of students of agricultural cooperation. 21 p. (Issued by Division of cooperative marketing)

*For a list of the principal serial publications issued regularly, see page 347 of this issue of AGRICULTURAL LIBRARY NOTES.

SELECTED LIST OF MIMEOGRAPHED PUBLICATIONS (Cont'd)

Bureau of Agricultural Economics (Cont'd)

The present status of farmer-owned grain-marketing associations in the United States. By J. F. Booth and W. J. Kuhrt. 23 p. (Issued by Division of cooperative marketing)

The relationship of farm buildings and improved roads to land values. By E. H. Wiecking. 11 p. (Issued by Division of land economics)

Review of progress made in poultry and egg standardization during the past year. By Roy C. Potts. 5 p. (Issued by Division of dairy and poultry products)

Significant trends among agricultural cooperatives. By Chris L. Christensen. 8 p. (Issued by Division of cooperative marketing)

Some factors affecting potato acreage and production in recent years. By W. F. Callander. 7 p. (Issued by Division of crop and livestock estimates)

What is happening to farm land values. Radio talk. By L. C. Gray. 6 p. (Issued by Division of land economics)

Bureau of Chemistry and Soils

Articles published in technical and scientific press and trade journals. Dust explosions in industrial plants. 10 p. (Issued by Chemical engineering division)

Bureau of Entomology

Complete research program, European corn borer, 1929. U. S. and Canada. 51 p. (Issued by Cereals and forage insects division)

Report of the 3d annual conference on European corn borer research. 23 p.

The southern pine sawyer. By J. A. Beal. 2 p. Forest entomology brief no. 66. (Issued by Division of forest insects)

Extension Service

Classified list of articles in the U. S. Department of Agriculture Yearbook for 1927. By F. A. Merrill. 17 p. Extension service circular no. 94. (Issued by Office of cooperative extension work)

Memorandum of understanding relative to the Smith-Hughes and Smith-Lever relationships in agriculture. 7 p. (Issued by Office of cooperative extension work)

LIST OF MIMEOGRAPHED PUBLICATIONS (Cont'd)

Extension Service (Cont'd)

Suggestions for fuller and more effective development of 4-H club work.
By Paul C. Taff. 7 p. (Issued by Office of cooperative extension work)

Forest Service

Annual report and program of the Southern forest experiment station.
1927/28. 23 p.

Grain Futures Administration

The place of future trading in the marketing of grain. By J. W. T. Duvel.
10 p.

Bureau of Plant Industry

Adaptation of foreign and domestic varieties and strains of alfalfa. By
H. L. Westover. 9 p. (Issued by Office of forage crops)

Citrus growing in the lower Rio Grande Valley. By T. Ralph Robinson. 2 p.
(Issued by Office of crop physiology and breeding investigations)

The cyclamen mite (*Tarsonemus pallidus*) as a field pest of the strawberry
plant. By George A. Darrow. 2 p. (Issued by Office of horticulture)

Instructions for seeding red clover under irrigated conditions and under
dry-land conditions in the west. By A. E. McClymonds. 3 p. (Issued
by Forage crops)

Safflower. General directions for the production of the crop. By Frank
Rabak. 4 p. (Issued by Office of drug, poisonous, and oil plants)

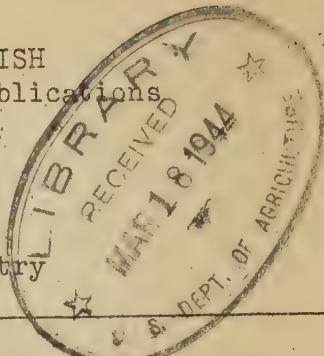
Transplanting deciduous trees and shrubs. By Furman L. Mulford. 2 p.
(Issued by Office of horticulture)

Why fruit trees fail to bear. By H. P. Gould. 6 p. (Issued by Office
of horticulture)

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COTTON: PARTIAL LIST OF PUBLICATIONS IN ENGLISH
Exclusive of publications on diseases and pests and publications
of the state experiment stations
1926-1928

Compiled by Marjorie F. Warner,
Assistant Librarian, Bureau of Plant Industry



This list is a continuation of the original list with the same title compiled by Emma B. Hawks, which was issued in 1926 as a supplement to AGRICULTURAL LIBRARY NOTES, vol. 1, no. 6. The present list includes a few titles published previous to 1926 which were not included in the original list. As in the case of the original list, works on diseases and pests, though not included in the first alphabet of books and pamphlets, are to a considerable extent included under the publications of the U. S. Department of Agriculture.

I. Books and Pamphlets

Bailey, M. A., and Trought, T. An account of experiments carried out to determine the experimental error of field trials with cotton in Egypt. 29 p. Cairo, 1926. (Egypt. Min. Agr. Tech. and Sci. Serv. Bul. no. 63)

The development of the Egyptian cotton plant. 46 p. Cairo, 1926. (Egypt. Min. Agr. Tech. and Sci. Serv. Bul. no. 60)

and Trought, T. Growth, bud-shedding and flower production in Egyptian cotton. 40 p. Cairo, 1927. (Egypt. Min. Agr. Tech. and Sci. Serv. Bul. no. 65)

Brown, H. B. Cotton: history, species, varieties, morphology, breeding, culture, diseases, marketing, and uses. 517 p. New York, McGraw-Hill book co., 1927.

Burns, A. C. Investigations on raw cotton. Deterioration of cotton during damp storage. 92 p. Cairo, 1927. (Egypt. Min. Agr. Tech. and Sci. Serv. Bul. no. 71)

Empire cotton growing corporation (Gt. Brit.) Cotton growing in southern Africa and Rhodesias. Report on a tour undertaken by the director, Mr. J. S. Addison, and Mr. J. C. Jefferys. 30 p. London, 1927.

Engledow, F. L., and French, C. N. Report on cotton breeding and seed supply in Nigeria. 32 p. London [Guildford and Esher, Eng., Printed by Billing and Sons, ltd.] 1928.

French, C. N. Report on the cotton-growing industry of Nigeria, 1926. 48 p. London, 1926.

Henderson, H. D. The Cotton control board. 74 p. London, New York [etc.] H. Milford, 1922.

Indian central cotton committee. Some modern problems of scientific research for the improvement of cotton growing. Papers read at... the Indian science congress, Bombay, Jan. 5, 1926. 68 p. [Bombay, The Times press, 1926] (Indian Cent. Cotton Com. Bul. no. 5.)

International institute of agriculture. Bureau of statistics. The cotton growing countries present and potential; production, trade, consumption. 317 p. London, P. S. King & Son, ltd., 1926.

Johnson, W. H. Cotton and its production. 536 p. London, Macmillan co., 1926.

COTTON: PARTIAL LIST OF PUBLICATIONS IN ENGLISH (Cont'd)

Keatinge, G. F. Cotton growing in South Africa. 67 p. London. [Guildford and Esher, Eng., Printed by Billing and sons, ltd.] 1923.

League of nations. Economic and financial section. International economic conference, Geneva, May, 1927. Documentation. Memorandum on cotton. 78 p. Geneva [Imp. Kundig]. 1927.

Miller, T. S. Cotton trade guide and student's manual. 5th ed. 465 p. Austin, Tex., The E. L. Steck co. [c1925]

Sampson, H. C. The existing conditions of cotton cultivation in Nyasaland and suggestions for their improvement. 31 p. London [Guildford and Esher, Eng., Printed by Billings and sons, ltd.] 1922.

Templeton, J. The perennial cultivation of cotton with special reference to the cultivation of ratoons in Egypt. 81 p. Cairo, 1928. (Egypt. Min. Agr. Tech. and Sci. Serv. Bul. no. 75)

Todd, J. A. The cotton world; a survey of the world's cotton supplies and consumption. 236 p. London, New York [etc.], Sir. I. Pitman & Sons, ltd., 1927.

Turner, A. J. Researches in cotton technology in India, 1927. 26 p. [Bombay, British India press, 1928] (Indian Cent. Cotton Com. Bul. no. 13) Results of spinning tests on standard Indian cottons. 89 p. Bombay, G. Cläridge & co., ltd. [1926] (Indian Cent. Cotton Com. Bul. no. 6) Technological reports on Indian standard cottons, 1928. 118 p. Bombay, The Times press, 1928. (Indian Cent. Cotton Com. Bul. no. 16) Technological reports on standard Indian cottons, 1923-26. 95 p. Bombay, The Times press, 1927. (Indian Cent. Cotton Com. Bul. no. 7)

Wood, L. S., and Wilmore, A. The romance of the cotton industry in England. 288 p. London, Oxford university press, H. Milford, 1927.

III. Publications of the U. S. Department of Agriculture

Circular

No. 2. Acala cotton, a superior upland variety from southern Mexico. By O. F. Cook and C. B. Doyle. 1927.

No. 47. Standardized cotton tare in Egypt. By W. I. Holt. 1928.

Department bulletin

No. 1056. Marketing cottonseed for planting purposes. By J. C. Barr. 1922. Rev. 1926.

No. 1365. Development of flowers and bolls of Pima and Acala cotton in relation to branching. By H. F. Loomis. 1927.

No. 1374. Studies of the pink bollworm in Mexico. By W. Ohlendorf. 1926.

No. 1392. Cooperative marketing of cotton. By G. O. Gatlin, 1926.

No. 1397. The pink bollworm. By W. D. Hunter. (Supersedes Dept. Bul. 723) 1926.

No. 1438. Weather damage to cotton. By R. L. Nixon. 1926.

No. 1444. Cotton prices and markets. By A. B. Cox. 1926.

No. 1445. Services in cotton marketing. By A. B. Cox. 1926.

No. 1467. Community production of Acala cotton in the Coachella Valley of California. By H. G. McKeever. 1927.

COTTON: PARTIAL LIST OF PUBLICATIONS IN ENGLISH
II. Publications of the U. S. Department of Agriculture
Department Bulletin (Cont'd)

No. 1473. Cotton-spacing experiments at Greenville, Texas. By H. C. McNamara. 1927.

No. 1484. Factors influencing the severity of the crazy-top disorder of cotton. By C. J. Kind and H. F. Loomis. 1927.

No. 1488. Manufacturing tests of cotton of the white grades of the universal standards for American cotton. By H. H. Willis. 1927.

Department Circular

No. 361. The cotton hopper, or so-called cotton flea. By W. D. Hunter. Ed. by J. W. Folsom. 1926.

No. 390. Study of off-type plants of Acala cotton. By R. D. Martin. 1926.

No. 397. Farmers' cooperative business study; the staple cotton cooperative association [Greenwood, Miss.]. By A. V. Swarthout. 1926.

No. 401. Growth and development of cotton plants at Greenville, Tex. By H. C. McNamara, J. W. Hubbard, and R. E. Beckett. 1927.

No. 414. Sea-island and Meade cotton in the southeastern states. By O. F. Cook and C. B. Doyle. 1927.

Farmers' Bulletin

No. 890. How insects affect the cotton plant and means of combating them. By W. D. Pierce. 1917. Rev. 1924.

No. 1187. Cotton diseases and their control. By W. W. Gilbert. 1921. Rev. 1925.

Miscellaneous Circular

No. 43. (Extension source) Lessons on cotton for elementary schools. [By F. A. Merrill] [1925]

Miscellaneous Publication

No. 10. The establishment of standard grades for American cotton linters. By G. S. Meloy. 1927.

Technical Bulletin

No. 4. Lygus elisus, a pest of the cotton regions in Arizona and California. By E. A. McGregor. 1927.

No. 13. Practices and costs of cotton-gin operation in north-central Texas, 1924-25. By J. S. Hathcock. 1927.

No. 50. Factors affecting the price of cotton. By B. B. Smith. 1928.

No. 69. Marketing American cotton in England. By A. B. Cox. 1928.

No. 72. The irrigation of cotton. By J. C. Marr and R. G. Hemphill. 1928.

No. 78. Marketing American cotton on the continent of Europe. By A. B. Cox. 1928.

Weather Bureau

Weekly cotton region bulletin [1927], no. 1-29, Apr. 12-Oct. 25, 1927; [1928] no. 1-30, Apr. 10-Oct. 31, 1928. New Orleans.

COTTON: PARTIAL LIST OF PUBLICATIONS IN ENGLISH

II. Publications of the U. S. Department of Agriculture (Cont'd)

Journal of Agricultural Research Articles

V. 30, no. 11, p. 1083-1086. Relation between weather conditions and yield of cotton in Louisiana. By B. B. Smith. 1925.

V. 31, no. 7, p. 653-661. Sulphate content of the leaf-tissue fluids of Egyptian and Upland cotton. By J. A. Harris, C. T. Hoffman and W. F. Hoffman, 1925.

V. 31, no. 11, p. 1027-1033. The leaf-tissue fluids of Egyptian cottons. By J. A. Harris, W. J. Hoffman, W. B. Sinclair, A. H. Johnson, and R. D. Evans, 1925.

V. 32, no. 1, p. 17-24. Behavior of cotton root rot at Greenville, Texas, including an experiment with clean fallows. By H. C. McNamara. 1926.

V. 32, no. 4, p. 297-310. Experiments on the control of cotton root rot in Arizona. By C. J. King and H. F. Loomis. 1926.

V. 32, no. 4, p. 391-395. A leaf bract and boll spot of sea-island cotton caused by *Helminthosporium gossypii* n. sp. By C. M. Tucker, 1926.

V. 32, no. 6, p. 793-800. Studies on gossypol: the gossypol and d-gossypol content of some North Carolina cotton-seed meals. By F. W. Sherwood. 1926.

V. 32, no. 7, p. 605-647. The relationship between the concentration of the soil solution and the physicochemical properties of the leaf-tissue fluids of Egyptian and Upland cotton. By J. A. Harris. 1926.

V. 33, no. 7, p. 651-661. Heritability of different rates of shedding in cotton. By T. H. Kearney and R. H. Peebles. 1926.

V. 33, no. 7, p. 781-796. Correlations of seed, fiber, and boll characters in cotton. By T. H. Kearney. 1926.

V. 33, no. 12, p. 1095-1141. Senses of the cotton boll weevil; an attempt to explain how plants attract insects by smell. By N. E. McIndoo. 1926.

V. 33, no. 12, p. 1143-1162. Efforts to determine the means by which the cotton-wilt fungus, *Fusarium vasinfectum*, induces wilting. By H. R. Rosen. 1926.

V. 34, no. 10, p. 921-926. Inheritance of rate of shedding in a cotton hybrid. By T. H. Kearney and R. H. Peebles. 1927.

V. 34, no. 10, p. 987-992. The gossypol content and chemical composition of cottonseeds during certain periods of development. By W. D. Gallup. 1927.

V. 35, no. 2, p. 97-106. Growth of fruiting parts in *Gossypium cerunuum*, an Asiatic cotton. By R. E. Beckett. 1927.

V. 35, no. 3, p. 193-217. Inheritance of smooth seeds in cotton. By T. H. Kearney and G. J. Harrison. 1927.

V. 35, no. 4, p. 307-312. The two most common decays of cotton bolls in the southwestern states. By M. Shapovalov. 1927.

V. 36, no. 5, p. 471-480. A chemical study of the development of cotton bolls and the rate of formation of gossypol in the cotton seed. By W. D. Gallup. 1928.

COTTON: PARTIAL LIST OF PUBLICATIONS IN ENGLISH
II. Publications of the U. S. Department of Agriculture

Journal of Agricultural Research Articles (Cont'd)

V.36, no.7, p.603-614. Illustrations of the application of a criterion of the deviation of an observed from random distribution to the problem of seedling stand in Sea-island, Egyptian, and Upland cotton. By J. A. Harris, G. J. Harrison, and F. M. Wadley, 1928.

V.36, no.7, p.615-623. Applicability of Pearson's equivalent probability and method to the problem of seedling mortality in Sea-island, Egyptian and Upland cotton. By J. A. Harris and M. M. Ness. 1928.

V.36, no.12, p.1011-1025. The toughness of cotton bolls in relation to age and nutrient supply as measured by pressure tests. By G. M. Armstrong. 1928.

V.37, no.4, p.213-231. A possible relationship between soil salinity and stand in cotton. By J. A. Harris. 1928.

V.37, no.8, p.465-472. Variation in seed fuzziness on individual plants of Pima cotton. By T. H. Kearney and G. J. Harrison. 1928.

Yearbook Articles

1926. Cotton of American-Egyptian variety in U. S. By T. H. Kearney. p. 251-254. 1927.

1926. Cottonseed crushing industry grows. By G. S. Meloy. p. 259-263. 1927.

1926. Cotton growing in one-variety communities. By C. B. Doyle. p. 263-267. 1927.

1926. Cotton line research. By H. H. Willis. p. 267-271. 1927.

1926. Cotton in the Texas Plains area. By E. O. Wooten. p. 271-274. 1927.

1926. Cottonseed grades are to be issued. By G. S. Meloy. p. 275-276. 1927.

1927. Cotton communities growing one variety only are increasing. By O. F. Cook. p. 215-219. 1928.

1927. Cotton grower often finds larger outlay pays in bigger yield. By C. L. Goodrich. p. 221-223. 1928.

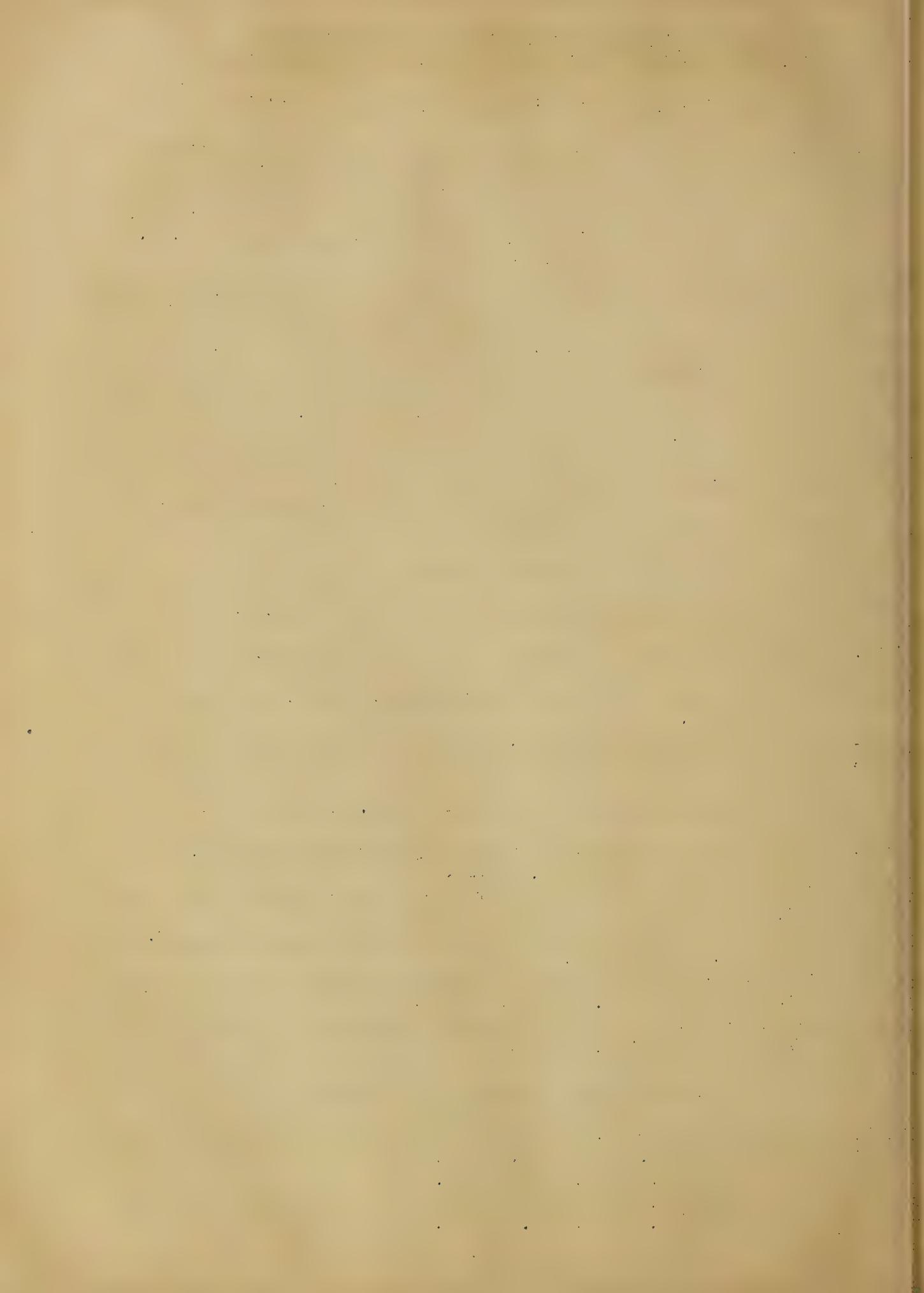
1927. Cotton harvesting by newer methods saves much labor. By A. P. Brodell. p. 223-224. 1928.

1927. Cotton-spinning value studies show need of higher qualities. By B. Youngblood. p. 228-232. 1928.

1927. Cotton wastes are turned by chemists into profit sources. By G. S. Meloy. p. 234-236. 1928.

III. Miscellaneous Government Publications

U. S. Department of Commerce. Bureau of the Census. Cotton production and distribution, 1923/24. Bul. 156. 1924.
1924/25. Bull. 158. 1925.
1925/26. Bull. 160. 1926.
1926/27. Bull. 162. 1927.



COTTON: PARTIAL LIST OF PUBLICATIONS IN ENGLISH
Exclusive of Publications on Diseases and Pests and Publications
of the State Experiment Stations.

Compiled by
Emma B. Hawks, Associate Librarian,
U. S. Department of Agriculture.

I. Books and Pamphlets

Balls, W. L. The cotton plant in Egypt, studies in physiology and genetics. 202 p. London. Macmillan & co., ltd. 1912.

Development and properties of raw cotton. 221 p. London. A. & C. Black, ltd. 1915.

Handbook of spinning tests for cotton growers. 59 p. London. Macmillan & co., ltd. 1920.

Bigwood, G. Cotton. 203 p. London. Constable & co. New York. Henry Holt & co. 1918.

Bowman, F. H. Structure of the cotton fibre in its relation to technical applications. 470 p. London. Macmillan & co., ltd. 1908.

British Cotton Industry Research Association. Shirley Institute. Memoirs. v. 1-3. Didsbury and Manchester. 1922-24.

Brooks, C. P. Cotton: its uses, varieties, fibre structure, cultivation, and preparation for the market and as an article of commerce, also the manufacture of cottonseed oil, cottonseed meal, and fertilizer. 384 p. New York. Spon & Chamberlain. 1898.

Brooks, E. C. The story of cotton and the development of the cotton states. 370 p. Chicago, New York [etc.]. Rand, McNally & co. 1911.

Burkett, C. W. and Poe, C. H. Cotton: its cultivation, marketing, manufacture and the problems of the cotton world. 331 p. New York. Doubleday, Page & co. 1906.

Also published in German under title "Die Baumwolle", by O. Wiegand, Leipzig, and in Spanish under title "Algodón", by S. Fabian de Velasco, New York.

Chapman, S. J. The cotton industry and trade. 175 p. London. Methuen & co. 1905.

Cheney, T. R. Cotton-seed-oil industry. In Depew, C. M., One hundred years of American commerce, v. 2, p. 451-455. New York. D. O. Maynes & co. 1895.

Chew, M. R. History of the kingdom of cotton. 96 p. New Orleans. W. B. Stansbury & co. 1884.

Collings, G. H. The production of cotton. 256 p. New York. John Wiley & sons. 1926.

Copeland, M. T. The cotton manufacturing industry of the United States. 415 p. Cambridge, Mass. Harvard University. 1912.

Crabtree, J. H. The cotton industry. 126 p. London. G. Lockwood & son. 1922.

Crawford, M. D. C. The heritage of cotton. The fiber of two worlds and many ages. 244 p. New York. S. D. Putnam's sons. 1924.

Dana, W. B. Cotton from seed to loom. 291 p. New York. W. B. Dana & co. 1878.

Darby, W. D. Cotton, the universal fiber. 68 p. New York. Dry Goods Economist. 1922.

Dodd, W. E. The cotton kingdom. 161 p. New Haven. Yale University press. 1919.

Duff, Sir H. Cotton growing in Nigeria. 81 p. London. Published by Empire Cotton Growing Committee. 1921.

Supplementary note. 6 p. 1921.

Duggar, J. F. Southern field crops. 579 p. New York. Macmillan co. 1911.

Dunstan, W. R. British cotton cultivation. Report to the Board of trade on cotton cultivation in the British Empire and in Egypt. 40 p. London. 1904. (Gt. Brit. Parliament. Papers by command. Cd. 2020.)

COTTON: PARTIAL LIST OF PUBLICATIONS IN ENGLISH (Cont'd)

I. Books and Pamphlets (Cont'd)

Dunstan, W. R. British cotton cultivation. Reports on the quality of cotton grown in British possessions. 46 p. London. 1908. (Gt. Brit. Colonial office. Colonial reports. Miscellaneous no. 50.)

Report on the present position of cotton cultivation; presented to the international congress of tropical agriculture, Brussels, May, 1910. 58 p. Paris. 1910.

Papers and reports on cotton cultivation; presented to the International congress of tropical agriculture, Brussels, May, 1910. Supplementary to the general "Report on the present position of cotton cultivation". 320 p. Paris 1911.

Earle, F. S. Southern agriculture. 297 p. New York. Macmillan co. 1908.

Flatters, A. The cotton plant, its development and structure. 92 p. London. Sherratt & Hughes. 1906.

French, C. N. Report on the cotton-growing industry of Uganda, Kenya and the Mwanza district of Tanganyika. 44 p. London. Published by Empire Cotton Growing Corporation. 1925.

French, G. J. Remarks on the mechanical structure of cotton fiber. 15 p. Manchester. C. Simms & co. 1857.

Fyson, P. L. Some experiments in the hybridising of Indian cottons. 27 p. Calcutta. 1908. (India. Dept. Agr. Mem. Bot. Ser., v. 2, no. 6.)

Gammie, G. A. The Indian cottons. 23 p. Calcutta. 1907. (India. Dept. Agr. Mem. Bot. Ser., v. 2, no. 2.)

Gilroy, C. G. The history of silk, cotton, linen, wool and other fibrous substances. 464 p. New York. C. M. Saxton. 1853.

Goulding, E. Cotton and other vegetable fibers: their production and utilization. 231 p. London. John Murray. 1917. (Handbook of the Imperial Institute, no. 4.)

Great Britain. Board of Trade. Empire Cotton Growing Committee. Report. 74 p. London. 1920. (Parliament. Papers by command. 523.)

Hall, A. J. Cotton-cellulose; its chemistry and technology. 228 p. London. E. Benn, ltd. 1924.

Hammond, M. B. The cotton industry: an essay in American economic history. Pt. 1, The cotton culture and the cotton trade. 382 p. New York. Macmillan co. 1897. (Thesis Ph. D., Columbia Univ.) (Amer. Econ. Assoc. Pubs., new ser. no. 1.)

Harding, R. Cotton in Australia: the possibilities of Australia as a cotton-growing country. 270 p. London, New York, [etc.] Longmans, Green & co. 1924. (Contains bibliography.)

Herty, C. H. Per cent tables for oil in cottonseed products with method of analysis. 50 p. Chapel Hill, N. C. The University press. 1908.

Herzfeld, J. Technical testing of yarns. Ed. 3, 209 p. London. Scott, Greenwood & son. 1920.

Horne, H. The extension of cotton cultivation in Tanganyika. 48 p. London. Published by Empire Cotton Growing Corporation. 1922.

Hubbard, W. H. Cotton and the cotton market. 503 p. New York. D. Appleton & co. 1924.

India. Department of Agriculture. Studies in Indian cottons. v. 1. Calcutta. 1914. (Mem. Bot. Ser., v. 6, no. 4.)

India. Indian Cotton Committee. Report. 2 v. Calcutta. 1919.

International Institute of Agriculture. Bureau of Statistics. The cotton-growing countries. Production and trade. 147 p. Rome. 1922.

COTTON: PARTIAL LIST OF PUBLICATIONS IN ENGLISH (Cont'd)

I. Books and Pamphlets (Cont'd)

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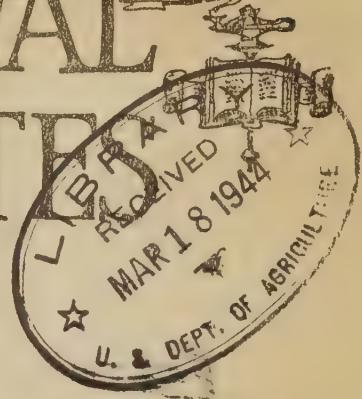
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U. S. War Industries Board. Storage Committee. Improved methods of baling cotton. 1918.

Note: The experiment stations of the following states issue publications on cotton: Alabama, Arizona, Arkansas, Georgia, Louisiana, Mississippi, New Mexico, North Carolina, Oklahoma, South Carolina, Tennessee, Texas, and Virginia. It was not practicable to include these publications in this list.

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AGRICULTURAL LIBRARY NOTES



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ISSUED MONTHLY
BY THE

UNITED STATES DEPARTMENT OF AGRICULTURE LIBRARY
WITH THE COOPERATION OF THE LAND GRANT COLLEGE
AND STATE AGRICULTURAL EXPERIMENT STATION LIBRARIES

WASHINGTON
D.C.

AGRICULTURAL LIBRARIES SECTION
American Library Association

The dates and program of the next Agricultural Libraries Section meeting are now definitely decided. The first session will be held Monday afternoon, May 13, at 2:30 and will be devoted to the U. S. Department of Agriculture and its libraries. It will be opened with a paper entitled "The U. S. Department of Agriculture and its relations to agricultural libraries", by Miss Claribel R. Barnett, Librarian of the Department. The meeting will be followed by a visit to the Department Library and to the branch libraries in the various bureaus.

The second session will be held Wednesday morning at 10 o'clock. At this meeting reports of committees will be presented. These will be followed by an informal round table discussion of questions and problems bearing upon the work of agricultural libraries, among them the following:

Possibilities of more definite cooperation between state agricultural college libraries and the U. S. Department of Agriculture in connection with interlibrary loans, the exchange of duplicates, and bibliographical work.

Are agricultural libraries sharing federal funds appropriated for agricultural research? If not, what action should be taken?

Federal laws affecting state agricultural college libraries.

Union list of periodicals in land grant college libraries.

Would printed cards for important articles in agricultural encyclopaedias be desirable?

The proper treatment of new editions of Farmers' Bulletins, previous editions of which are already bound.

Both meetings will be held in the Conference Room of the U. S. Department of Agriculture, which is Room 411 of the Bieber Building, 1358 B Street, Southwest. B Street Southwest is the street bordering on the south side of the Mall.

The meetings of the Agricultural Libraries Section are held for the primary purpose of providing a means of bringing together those who are interested in agricultural libraries and agricultural literature and of bringing forth worthwhile ideas and plans for the advancement of agricultural library work. Those who are able to attend the conference will have an opportunity to obtain valuable information of interest in connection with their work and will also have an opportunity to contribute something to the meeting which will aid others in their problems. The professional contacts at library conferences give inspiration and contribute much to developing a spirit of teamwork so essential to the proper functioning of any group which works for a common purpose. It is hoped that there will be a large attendance of agricultural librarians at the coming conference and that the meeting will result in definite progress for agricultural libraries.

Mary G. Lacy, Secretary
(Librarian, Bureau of Agricultural Economics, U. S. Department of Agriculture)

Mary E. Baker, Chairman
(Librarian, University of Tennessee)

UNIVERSITY OF WISCONSIN OFFERS COURSE IN METHODS OF EXTENSION

A special six weeks' course in extension methods is being offered by the University of Wisconsin in cooperation with the U. S. Department of Agriculture for the 1929 summer session of the University, July 1-August 9. The course will be given by M. C. Wilson, who is in charge of the extension studies of the Office of Cooperative Extension Work, U. S. Department of Agriculture. The course, which may be taken for either undergraduate or graduate credit, will take up ways of measuring extension progress, methods of collecting research data relating to extension, the influence of size of farms, land tenure, educational training, age, contact with extension workers, and other factors, upon effectiveness of extension teaching. Information regarding the course can be obtained from J. A. James, Assistant Dean, College of Agriculture, Madison, Wisconsin.

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KITCHEN CHARTS AVAILABLE

A series of eight black and white educational charts on kitchen planning, designed by the Bureau of Home Economics, U. S. Department of Agriculture, can be had at cost, 50 cents, from the Superintendent of Documents, Government Printing Office, Washington, D. C. These charts embody the practical ideas developed by the Bureau for making the kitchen more convenient. They are planned especially for use as illustrative material such as is frequently needed by the extension worker, the teacher, or the leader of a woman's club. The charts are a good size for wall use, 16 by 20 inches, and are printed on heavy paper. All except one are illustrated with views of actual home kitchens and diagrams, and there are legends and text to make the charts helpful to a club or in a classroom. Following an introductory chart, there is a chart on light and ventilation; one on walls, floors and woodwork; one showing the large kitchen made convenient; and four others, each illustrating the arrangement of one of the four work centers - the food preparation center, cooking, serving, and clearing away centers. The series is entitled "The Convenient Kitchen".

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ILLUSTRATED BOOKLET ON AGRICULTURE IN THE UNITED STATES

Supplementing its exhibit at the Ibero-American Exposition, Seville, Spain, in the summer of 1929, the U. S. Department of Agriculture has issued an illustrated booklet (with a foreword by former Secretary Jardine) discussing briefly several of the principal field crops and classes of livestock produced in the United States. In addition, there is an article on roads and transportation, a short history of the agricultural colleges and experiment stations, and a general outline of the cooperative extension work. A description of the exhibit at Seville is also included. The booklet is not for general distribution but copies are available by purchase, for fifty cents, from the Superintendent of Documents, Government Printing Office, Washington, D. C.

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THE FUNCTION OF A LIBRARY

By Rabindranath Tagore

Most libraries are possessed with the passion for accumulation. Three-quarters of their books do not come into use - their overgrown proportion even thrusts into a corner the specially selected few that are meant for being actually used. In our popular parlance, the man of large riches is called a great man. When a millionaire comes into a gathering they vie to do him honour - an honour not dependent on what he has to say but merely on what he has. Much in the same way, the bigness of a library is estimated by the number of its volumes. The facilities offered for their use that should have been its glory, are not deemed necessary for its pride.

The words that are owned by our language have two different repositories - one is the dictionary, the other is its literature. It is useful to collect all the known words in a comprehensive dictionary, though comparatively but few of them are actually current. On the other hand, the range of words found in literature - which are living and therefore not one of which can be spared - is ever so much less. And yet it has to be admitted that the value of literature is more than that of the dictionary.

The same truth applies to the library. That part of its contents which is for the purpose of extensive accumulation has its usefulness, but the other part which is for constant and multifarious use, gives it its significance. The average librarian, however, rarely takes thought or trouble to bring the largest number of books to the utmost use, because it is always easier to overwhelm the public mind with the mere display of quantitative abundance.

In order to bring a library into the fullest use, it is necessary that its contents should be clearly and specifically brought to notice, otherwise it is difficult for the ordinary man to find his way about them, and the library is left as a city of vast accommodation that lacks sufficient means of communication. Those who frequent libraries on some special quest of their own, may manage to make a track for themselves by dint of the urgency of their particular pursuit. But the library itself should recognize its share of responsibility in the matter. Because it has the books, it is incumbent on the library to get them read, for then alone is it justified. It is not enough that it passively permits visitors: its invitation should be active. For, as the Sanskrit proverb tells us: tannashtam yannadiyaté, that which is not given is wasted.

The usual thing is for a library to say: Here is my catalogue, come and select for yourself. But in the usual catalogue there is no introduction, no invitation, no spirit of welcome. That library alone can be called hospitable which shows an eagerness to invite readers to the feast at its disposal - it is such hospitality that makes a library big, not its size. That the readers make the library is not the whole truth; the library likewise makes the readers.

If this truth is kept in view, we at once realise what a great function is that of the librarian. His duty does not end with the acquisition, classification and care-taking of the volumes in his charge; in other words, it is not exhausted by mere multiplication and division; he must have a proper understanding of his books as well. If a library is too big, it becomes practically impossible for the librarian adequately to acquire such true understanding. That is why I feel that the big library can but function as a

store-house, and only the small one serve as a refectory to furnish the wherewithal for daily sustenance and enjoyment.

My idea of a small library is one that keeps books on every subject, but only select books, not one of which is there merely as an offering of worship to number, but each one of which stands on its own merits; where the librarian is a true devotee, devoid of ulterior seeking, free from pride in the mere loading of shelves, capable of discriminate rejection. A library, in short, which makes just enough provision that can be placed before its guests for their delectation, with a librarian who has the qualities of a host, not a store-keeper.

Consider, for instance, the case of a library which takes in a number of periodicals, published at home and abroad. If some one on the staff made it his duty regularly to compile a list of the specially interesting articles, and hang it up in a conspicuous place, would that not immensely increase the chances of their being read? As it is, three-fourths of these remain unopened, encumbering space and burdening the shelves as they keep on accumulating. The same is the case with new books. Very few librarians attempt to acquaint themselves, much less their constituents, with the contents. Yet is it not obvious that the wealth they have to offer should be made known as soon as new books come to hand?

Made known to whom? In each case a special circle of readers. Every library should have as its indispensable limbs such special circles of readers. These alone can give it life. The worth of a librarian I would gauge by his power of attracting and looking after such circles, of acting as the intermediary for an intimacy of relationship between reader and library. That is to say, on him is cast the burden not only of the books, but of their readers as well, and in the maintaining of both is the test of his efficiency, of the proper discharge of his trust.
(From The Visva-Bharati Quarterly, January, 1929)

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CLASSIFICATION NUMBER OF SPECIAL LIBRARIES

"Special Libraries" for March, 1929, is a Classification number. There are interesting and very useful articles on the Brussels, Cutter, Dewey, Elliott, Baker Library, Library of Congress, and other special systems. Miss Dorkas Fellows' article on the Decimal Classification contains the following comments on the agricultural portion of the 12th edition: "In edition 12 the serious gaps in our agriculture tables (forestry, floriculture, grape raising and bee keeping) were filled and during the past year a specially careful examination has been made of other classifications for agriculture and of agricultural indexes, with a view to picking up any minor or very recent topics for which we might not have provided, so that agriculture is now probably the most thoroughly rounded out of any of the first hundred D. C. divisions."

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RURAL LIBRARY EXTENSION

"The County Library Gains Recognition" is the title of an article by Julia Wright Merrill, Executive Assistant of the Committee on Library Extension, American Library Association, in "Rural America" for March, 1929. Another article by Miss Merrill, entitled "Books Wanted; Rural People Interested in County Library Plant", appeared in the April, 1929, issue of "American Farming". Both articles have been reprinted by the A. L. A.

The Committee on Library Extension of the American Library Association has issued the following account of the Rural Library Extension Conference held in Chicago on March 26, 1929.

"The extension of library service to rural districts through county libraries was the subject of discussion at a conference called by the American Library Association in Chicago, March 26. Forty men and women, agricultural and educational leaders from all parts of the country, representatives of agricultural industries, the Library Extension Committee and the President and Secretary of the A. L. A. gathered around a big oval table at the Union League Club for an informal discussion. Among the agencies represented in addition to the A. L. A. were: Office of Cooperative Extension of the U. S. Department of Agriculture; Bureau of Education; Federal Board for Vocational Education; American Farm Bureau Federation - Home and Community Department; National Congress of Parents and Teachers; Playground and Recreation Association; General Federation of Women's Clubs; American Association for Adult Education; General Education Board; Julius Rosenwald Fund; American Banker's Association - Agricultural Commission; American Home Economics Association; American Farming; Rotary International; Kiwanis International; Woman's Home Companion - Good Citizenship Bureau; Garrett Biblical Institute - Rural Community Extension Service; Illinois, Iowa and Wisconsin Colleges of Agriculture; Chicago Association of Commerce - Agricultural Committee; Illinois Chamber of Commerce; International Harvester Co. - Agricultural Extension Department; Armour & Co.; Montgomery, Ward & Co.; Swift & Co.

"The presiding officer was J. O. Modisette, Chairman of the Louisiana Library Commission. President Eastman expressed the greetings of the A. L. A. Brief talks were made by the new Commissioner of Education of the United States, William J. Cooper, by John D. Willard of the American Association for Adult Education, C. B. Lester, Chairman of the Committee on Library Extension, Milton J. Ferguson, California State Librarian (just returned from making a survey of South Africa), and Carl H. Milam, Secretary of the A. L. A. Professor J. H. Kolb of the University of Wisconsin College of Agriculture served as leader for the informal discussion which began at luncheon and continued through the afternoon and evening. Every guest contributed to the experience of his or her organization, Mrs. Sewell of the American Farm Bureau, Federation, for example, expressing the eagerness of the farm women for cultural advantages for themselves and their children. Many practical offers of help were made.

"No formal action was taken at the Conference, as its purpose was discussion. The Library Extension Committee, however, met in business session the next day, and expressed its own reaction to the conference in the following resolution: The interest evidenced by rural leaders in conference, March 26, with the Library Extension Committee of the American Library Asso-

ciation enforces the conviction, (1) That the rural people demand equal educational and cultural opportunities with their urban neighbors; (2) That this equality can best be had through the establishment of county libraries adequately supported by public funds under trained librarians; (3) That county appropriations for county library service must be supplemented and stimulated by state and federal aid, and, at this early stage of the movement, by gifts of individuals and organizations and grants from educational foundations; (4) That demonstration county libraries in every state would prove the value of the service; (5) That information about county library service must be spread through the press, the farm journals, by exhibits and leaflets, by speakers and field agents; and (6) That all national and state agencies concerned with rural progress share the opportunity and the responsibility for furthering county library development."

Proceedings of the meeting are in preparation.

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RECENT PUBLICATIONS ON FARM RELIEF

"The Economics of Farm Relief", by Prof. Edwin R. A. Seligman, of Columbia University, has recently been issued by the Columbia University Press. A review of the book by Dr. H. C. Taylor, formerly Chief of the Bureau of Agricultural Economics, U. S. Department of Agriculture, is contained in "Rural America" for April, 1929. Another new book on this subject, by Lewis F. Carr, is "America Challenged", published by the Macmillan Company.

The March, 1929, issue of "The Inquiry", published at 129 East 52d Street, New York, contains a study outline on "The Question of Farm Relief". The reading list which accompanies the article was prepared by Mr. Benson Y. Landis, Associate Research Secretary of the Federal Council of Churches.

"Toward a National Agricultural Policy" is the title of an article in the March, 1929, issue of "Rural America" which gives parts of recent statements of three national organizations on this subject: first, the National Grange Agricultural Policy; second, the resolutions of the American Farm Bureau Federation; third, the referendum of the Chamber of Commerce of the United States.

The Annals of the American Academy of Political and Social Science, Philadelphia, for March, 1929 (vol. 142) is devoted entirely to farm relief. It is made up very largely of articles prepared by economists connected with the Federal government, the state agricultural colleges, and various farm organizations.

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AN ENCYCLOPAEDIC METEOROLOGICAL DICTIONARY

"Meteorology's Frozen Assets" is the interesting title of an interesting article by Prof. W. J. Humphreys of the Weather Bureau, in the March 8, 1929, issue of "Science". "In the business and financial world frozen, or unavailable and unsalable assets", to quote from Professor Humphreys, "are almost as bad as no assets at all. A bank, for instance, may be forced to buy in a large amount of real estate at a foreclosure to avoid losing wholly loans that appeared entirely conservative when made... Similarly, the farmer may have tobacco, cotton or grain in a warehouse but be quite unable promptly to sell it... Unfortunately, knowing the pinch of poverty in the midst of plenty - of possessing frozen capital that does no one any good - is not confined to the business world. Science, too, and every branch of it, is far less productive of the good it could do because so many of its valuable assets are rigidly frozen - so many investigations that deal directly with each particular science, and especially so many more that deal with it indirectly, are lost for years, if not forever, in the jungle of journals and tangles of tongues. In this sense meteorology, to be specific and to come at once to the subject under consideration, is actually one of the poorest of all sciences. Its assets, indeed, are amazingly great and rapidly accumulating, but they are frozen to such a depth and breadth that only a Hercules could make them liquid - available for power and light, and able, besides, to change the forlorn desert of our ignorance to an inspiring field of knowledge." Professor Humphreys then proceeds to describe some of the frozen assets of meteorology. Among these he includes the "encyclopaedic meteorologic dictionary" in preparation by Mr. C. F. Talman, Librarian of the Weather Bureau. He describes it as follows:

"No doubt any one familiar with meteorology can cite specific cases of frozen assets, and it is to be hoped that each will do so on every proper occasion, and himself do what he can to better the unfortunate condition. But let me suggest one thing in this connection that must seem Utopian, and yet a thing which I know to be within comparatively easy reach of realization. The great library at the central office of the U. S. Weather Bureau contains 50,000 volumes, and receives every journal, the world over, that deals with meteorology or any kindred subject. Of course an excellent and up-to-date card catalogue of all this material makes it as readily available as are the books and journals of our largest libraries and greatest institutions. But a card catalogue, though indispensable, is for all that a cold and lifeless thing, solitary, bulky, and immovable. How exceedingly helpful it would be if in addition to this invaluable library guide we also could have an encyclopedic meteorological dictionary that listed every one of the thousands of words, many of them in no dictionary, that has air, weather, or climatic significance; a work that gave the origin of these words, wherever known, the sense or senses in which they have been and are used, with citations of place and author, and, finally, competent, critical references to the best literature in which they occur. As stated above, this seems altogether too good a thing to be realized. Well, it is in the making, and very far along at that. Even in its incomplete form it

is extremely valuable, and I base this assertion on the abundant use I have been kindly permitted to make of it. I refer, of course, to that super card-catalogue which the indefatigable, accommodating and scholarly librarian of the U. S. Weather Bureau, Mr. C. F. Talman, has been accumulating for nearly two decades. It is a huge undertaking, but the material already assembled on many thousands of large dictionary cards, and to which additions are made daily, has already proved its worth. It is constantly consulted in the reference work of the library; has often been drawn on in supplying material for dictionaries, handbooks and encyclopaedias, and furnished the material for the meteorological glossary in the Weather Bureau's 'Instructions to Marine Meteorological Observers' - the best glossary of its kind extant, and yet the merest and most condensed sample of what the complete work would be like.

"It would cost a little to liquidate this frozen asset, perhaps \$25,000, and it would take at least two or three years, and more likely five, to do it, but it would be money extremely well spent, so far as the benefits to meteorology are concerned, and some of the cost would come back by way of sales of the publication. But such a dictionary would be out of date, some may insist, as soon as published. Certainly it would be out of date to some extent, just as all dictionaries and all other works of reference necessarily are. The logic of that situation is not to do nothing, but to have the material as nearly up to date as practicable at the time of the first publication, and then day by day, as occasion may suggest or necessity require, accumulate notes and manuscript for a new edition.

"To complete this work would be a big labor, and its publication a little expensive, but I can say with that assurance that comes from experience that few things indeed in the field of meteorology would so multifoldly reward the labor and the cost its completion would require..."

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The following compilations have been made by members of the staff of the Legislative Reference Library of the Wisconsin Free Library Commission. The library has a limited number of copies for distribution and some copies available for loan: Cattleways under highways and railroads: digest of state laws. By Ann Neal. 2 p.; Statutory provisions in eleven northwestern states regarding collection of farm and crop statistics. By Beatrice Hager and Bernice Cox. 7 p.; Summary of state laws relating to ice cream. By Ann Neal. 10 p.

The Yearbook of the Massachusetts Horticultural Society for 1929 contains an interesting account of the Centenary of the Society, it having been founded in March, 1829. The account includes a history of the library of the Society prepared by the Librarian, Miss Dorothy St. J. Manks. A photograph of the library is also given.

The March, 1929, issue of the ACE, official organ of the American Association of Agricultural College Editors, reprints the Suggestions on the Standardization of Agricultural College Publications which were adopted at the 1924 (Brookings) meeting of the Association.

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SOME RECENT BIBLIOGRAPHIES COMPILED IN THE LIBRARY, BUREAU OF PUBLIC ROADS,
U. S. Department of Agriculture

Concrete. Bibliography on methods of curing concrete. Compiled by Mildred Wilson. 1929. 18 p. mimeographed.

Gives five pages of general references, then takes up various types of bituminous applications, burlap, calcium chloride, earth and water, sodium silicate, steam. Compiled at request of the Highway research board.

Construction. Selected list of books and periodicals on road construction. Nov. 12, 1928. 6 p. Mimeographed.

Finance. Partial bibliography on highway finance. Compiled by Mildred Wilson. Dec. 1928. 118 p. mimeographed.

Classified by subjects, with author index and list of addresses of magazines to which references are made. General references include statistics and legislation and a section divided by geographic divisions. Methods of financing cover Federal aid, State aid, pay-as-you-go plan, bonds, and various methods of taxation.

Maintenance. Partial list of references on highway maintenance, compiled by Dorothy J. Wilks. November, 1928. mimeographed.

Classified by subjects, with author index and list of addresses of magazines to which references are made. In addition to general references, subjects covered are organization, methods, types of roads, equipment, cost, financing, education.

Safety. Annotated index to articles on highway safety and allied subjects, prepared for the Committee on causes and prevention of highway accidents, Highway research board. Dec. 1927. 388 p. mimeographed.

Items are arranged according to a carefully worked out classification scheme, which classification is attached to the bibliography as a table of contents. Appended are an author index and a list, with addresses, of magazines referred to. The main items of the classification are: I. General; II. Statistics; III. Accidents, causes and prevention, subdivided into rural highways, urban streets, traffic regulation, motor vehicle design, education; IV. Miscellaneous. Grade crossings are included under III.

Toll bridges. Partial list of references on toll bridges. Compiled by Mildred Wilson. Oct. 26, 1928. 9 p. mimeographed.

Rubber pavements. Partial list of references on rubber pavements. Compiled by Mildred Wilson. 1929. 10 p. typewritten.

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CONGRESSES AND CONFERENCES

Proceedings of a Conference of the Agricultural Economics Society, Oxford, England, July 6-9, 1928. Held at Wadham College. 55 p. Reading, 1928.

In addition to an address by Sir Horace Plunkett on "The purpose of rural life organization", the following papers are included: "The scope of agricultural economics", by Sir Henry Rew, President of the Society; "An examination of the notion of net output", by H. M. Conacher; "Survey methods as an approach to the study of agricultural economic problems", by A. Bridges; "Some materials for the economic history of agriculture", by E. Rideout; "The relation between extension and research work in agricultural economics", by Dr. C. E. Ladd. The Proceedings are obtainable through the Hon. Secretary, E. Thomas, University of Reading, 7, Redlands Road, Reading, England.

Proceedings of the Third Pan-Pacific Science Congress, Tokyo, October 30-November 11, 1926. Held under the auspices of the National Research Council of Japan and through the generosity of the Imperial Japanese Government. Edited by the National Research Council of Japan. 2 v. [Tokyo, 1929]

Congres des Engrais Azotés de Synthèse, Montpellier, 1927. Congres des engrais azotés se synthèse, 31 mai, 1er et 2 juin, 1927. Sous les auspices de l'Ecole nationale d'agriculture de Montpellier, de la Société centrale d'agriculture de l'Hérault, de la Société départementale d'encouragement à l'agriculture de l'Hérault, du Comice agricole de l'arrondissement de Béziers. 181 p. Paris, Imprimerie Chaix, 1928.

Report of Proceedings of Conference on Electricity Supply in Rural Areas, London, 1927-28. 84 p. London, H. M. Stationery office, 1928.

An International Congress of Tropical and Subtropical Agriculture and an International Coffee Congress are to be held at Seville, Spain, June 6 to 12, 1929.

The Fourth Pacific Science Congress will be held at Batavia-Bandoeng, Java. May 16 to 25, 1929, under the auspices of the Netherlands Indies Science Council and supported by the high patronage of the Netherlands Indies Government. The Proceedings will probably not be available for a year or two.

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AMERICAN BOOKS

American Rock Gardens. By Stephen F. Hamblin, Assistant Professor of Horticulture, Department of Landscape Architecture, Harvard University, and Director of the Botanic Gardens. 125 p. il. New York, Orange Judd, 1929.

The author's opening statement is as follows: "There is still a great need of a simple book on rock gardens. New plants are continually being brought into cultivation from Yunnan or the Rockies but the processes involved in construction or the methods of maintenance have not changed, though many garden builders have not studied them sufficiently. The effects produced today are not superior to those of a generation ago when this cult was started, while the flower fields of the Alps or the Yellowstone have the same wild and compelling beauty which was theirs before the advent of man. All that needs be said in directions or inspiration is found in the writings of the two pioneers in this craft, particularly in the formal treatise of each on this subject. Were my library on this topic reduced to two books, I would choose quickly to retain 'Alpine Flowers for English Gardens' by William Robinson, printed by John Murray, London, 1870. This is out of print but still purchasable second-hand. It is really more important to reprint this book than to write another one. The second is 'Les Plantes des Montagnes et des Rochers', by Henri Correvon, printed by Octave Doin & Fils, Paris, 1914. This edition and an English translation, which is now ready, may also be obtained from the author, at Floraine, Chene-Bourg, Geneva, Switzerland. If there is any important direction to be made in this kind of gardening, these two enthusiasts have noted it, and all the many new books in England or America count merely for further enthusiasm. But with many readers there is place for many books; so herewith is more enthusiasm offered..."

Garden Lilies. By Isabella Preston, Division of Horticulture, Central Experimental Farm, Ottawa, Canada. 126 p. il. New York, Orange Judd, 1929.

The opening chapter gives a review of the literature of garden lilies.

American Plants for American Gardens. By Edith Roberts, Professor of Botany at Vassar College, and Elsa Rehmann, Landscape Architect. 131 p. New York, Macmillan, 1929.

This volume comprises a series of articles which appeared in House Beautiful under the title of "Plant Ecology".

Starting Early Vegetable and Flowering Plants Under Glass, including the details of construction and heating as well as the operation of small greenhouses, sash houses, hot beds and cold frames. For the amateur and commercial grower. By Charles H. Nissley, Extension Specialist in Vegetable Growing at the New Jersey State Agricultural College. 302 p. il. New York, Orange Judd, 1929.

AMERICAN BOOKS (Cont'd)

The Witchery of Wasps. By Edward G. Reinhard. 291 p. il. New York, Century Co., 1929.

The foreword, by Dr. L. O. Howard, formerly Chief of the Bureau of Entomology, U. S. Department of Agriculture, is as follows: "The solitary wasps have attracted a number of proficient students and charming writers: Fabre, the 'Homer of the insects,' loved them and wrote delightfully about them; Ferton, a retired French artillery officer, one of the keenest of observers, spent very many hours in his Corsican retirement, studying them with the greatest care, and even allowed himself to criticize Fabre; George W. and Elizabeth G. Peckham, in Milwaukee, made a special study of American forms and wrote a very charming book about them; and Phil and Nellie Rau have done the same in St. Louis, where C. H. Turner, the outstanding biologist of the colored race, also carried on his remarkably clear-headed experiments on insect behavior."

"The writings of the students named above have so fascinated me that I have often felt that I should like to drop everything else and study solitary wasps for the rest of my life. These writings have really interested me even more than such marvelous books about certain social insects as those of Wheeler, Forel, and Maeteeflinck."

"It must have been in 1922 that I heard Mr. Reinhard talk before the Entomological Society of Washington about his study of the solitary wasps! I was so impressed by his close observations and his ingenious experiments, by his full appreciation of the importance of such studies in the field of comparative psychology, by his familiarity with the writings of others, and by the literary finish of his method of presentation, that I urged him to publish not only individual papers on certain species but also a book telling of them all. This is the book. It has all the charm of Fabre's writings, and we may, I think, without irreverence suggest that we can rely more surely on its taxonomic exactness, since the wasps that Reinhard studied may be found, accurately labeled, in the great collections of the United States National Museum."

A Handbook of the Dragonflies of North America. By James G. Needham, Professor of Entomology and Limnology, Cornell University, and Hortense B. Heywood, assisted by specialists in certain groups. 378 p. il. Baltimore, Charles C. Thomas, 1929.

A book for collectors of dragonflies and for students of their natural history. A bibliography is given on pages 359-365.

The Principles of Systematic Entomology. By Gordon F. Ferris, Associate Professor of Zoology, Stanford University. 169 p. il. Stanford University, Cal., Stanford University Press, 1928.

Economic Biology, A Text for Students of Agriculture and General Biology. By George P. Weldon, Instructor in Biology, Entomology and Pomology, Chaffey Union High School and Junior College, Ontario, California. 457 p. il. New York, McGraw-Hill, 1929.

Intended for the use not only of the teacher of biology but also for the agricultural field worker and the farmer who desire to secure information regarding the control of the more common pests and diseases.

AMERICAN BOOKS (Cont'd)

Economics of Farm Relief, A Survey of the Agricultural Problem. By Edwin R. A. Seligman, McVickar Professor of Political Economy, Columbia University. 303 p. New York, Columbia University Press, 1929. Bibliography: pp. 283-290.

Introduction to Agricultural Economics. By Fred R. Yoder, Professor of Rural Social Science, State College of Washington, 472 p. New York, Thomas Y. Crowell Company, 1929.

An introduction to the subject for beginning students and others interested in the economic problems of agriculture in the United States. In addition to footnote references, "Selected references" are given after each chapter.

The Cooperative Pattern in Cotton. By Robert H. Montgomery, Professor of Economics, University of Texas, 335 p. New York, Macmillan, 1929.

Presents a critical analysis of the post-war agricultural cooperative marketing movement in the South.

Franklin's Economic Views. By Lewis J. Carey. 243 p. Garden City, N.Y., Doubleday, Doran & Company, 1928.

Chapter VIII has the title "Franklin's services and interest in the promotion of agriculture, silk culture, and botany". In addition to footnote references, a "Bibliography" is given after each chapter.

Marketing Canada's Wheat. By James E. Boyle, Professor of Rural Economy, New York State College of Agriculture, Cornell University, Ithaca, N. Y. 63 p. Winnipeg, Canada, The Winnipeg Grain Exchange, 1929.

What Engineers Do, An Outline of Construction. By Alfred D. Binger, Member, American Society of Civil Engineers. 259 p. illus. New York, W. W. Norton & Company, 1928.

Children in Agriculture. By Nettie P. McGill. 81 p. il. U. S. Department of Labor, Children's Bureau, Publication No. 187. Washington, 1929.

Some Pennsylvania Pioneers in Agricultural Science. By Thomas I. Mairs, Professor in the Pennsylvania State College School of Agriculture. 185 p. il. The Pennsylvania State College Studies in Agriculture, no. 1, College Series, no. 2. State College, Pa., 1928.

These sketches were written to put into available form information concerning some of the men who laid the foundation of the School of Agriculture and the Agricultural Experiment Station of the Pennsylvania State College.

The Bureau of Dairy Industry, Its History, Activities and Organization. By Jenks Cameron. 74 p. Baltimore, The Johns Hopkins Press, 1929.

This volume is no. 55 in the series of Service Monographs of the United States Government issued by the Institute for Government Research. A bibliography, compiled by Sophy H. Powell, is included as Appendix 7.

AMERICAN BOOKS (Cont'd)

Gardening in the Lower South. By H. Harold Hume. 453 p. il. New York, Macmillan, 1929.

"For the purposes of this book, the Lower South begins with the region surrounding Charleston, South Carolina, extends southward along the Atlantic Coast and westward around the Gulf of Mexico. It embraces the eastern parts of South Carolina, Georgia, all Florida, the southern regions of Alabama, Mississippi and Louisiana and southern Texas." Directions are given for the planting, pruning, and general care of Southern ornamentals and fruit plants. The relation of plants to climate is discussed, and soils, fertilizers, frosts and garden pests are considered. Special chapters deal with palms, azaleas, roses, hedges, bamboos, bulbs, annuals and perennials, vines, window boxes, pot plants, and the fruit garden.

Tree Crops, A Permanent Agriculture. By J. Russell Smith, Professor of Economic Geography, Columbia University. 333 p. illus. New York, Harcourt, Brace, 1929.

In this plea for a new agriculture, the author seeks to prove that the agriculture of the present is in reality suicidal, and as an example of needed constructive scientific work, offers plans for making a whole series of crops grow on trees. Appendix A is a "List of articles in which the tree crops idea has been broadcasted" and Appendix B is a "Bibliography on soil erosion and its prevention".

The Practice of Silviculture, with particular reference to its application in the United States of America. By Ralph C. Hawley, Professor of Forestry, Yale University. 2d ed. rewritten and reset. 385 p. New York, Wiley, 1929.

"In revising 'Practice of Silviculture' the effort has been made to bring the text up to date and incorporate the information concerning American silviculture developed since the book first appeared, without appreciably enlarging the volume. Protection against fire, however, has been treated in greater detail." (Preface)

Chemistry in Its Relation to Agriculture. R. Adams Dutcher and Dennis E. Haley, Department of Agriculture and Biological Chemistry, The Pennsylvania State College. Part I. 261 p. mim. 1929. Ann Arbor, Edwards Brothers, 1929.

Chapter I, from which the following extract is taken, traces the development of agricultural chemistry. "When we attempt to study the factors which have played important roles in the development of scientific agriculture, we find that chemistry has occupied a most prominent place. The part that chemistry has played in this development has been of such far-reaching importance that a special branch of this science, known as agricultural chemistry has been a natural outgrowth. It is to this particular phase of chemistry that we wish to direct the reader's attention, for agricultural chemistry, probably more than any other single factor, has been responsible for the development of the quantitative aspects of modern agricultural practice and for the elimination of the old 'rule of the thumb' methods which followed for centuries."

ENGLISH BOOKS

Symbols and Formulae in Chemistry, An Historical Study. By R. M. Caven, Professor of Inorganic Chemistry, and J. A. Cranston, Lecturer in Physical Chemistry, Royal Technical College, Glasgow, Scotland. 220 p. illus. London and Glasgow, Blackie & Son Limited, 1928.

"This book has arisen out of a two-fold interest: an antiquarian interest in the past, and a scientific interest in the present. Symbols in chemistry, like fashions in dress, have changed greatly from age to age and in the pages of this volume a parade is arranged for all who care to see them." (Preface)

Plant Diseases. By F. T. Brooks, University Lecturer in Botany, Cambridge, England. 386 p. il. London, Oxford University Press, 1928.

Relates to the diseases of British crop plants, including an outline of the present knowledge of important plant diseases in other parts of the Empire and in other countries of the world. "References" are given after each chapter.

Scientific Papers of William Bateson. Edited by R. C. Punnett. 2 v. il. Cambridge, University Press, 1928.

"These two volumes contain practically all of Bateson's contributions to purely scientific journals, together with portions from two of his earlier books, 'Materials for the study of variation' and 'Mendel's principles of heredity - a defence', both of which are now difficult to obtain. As a whole the papers fall into two well-marked groups, and accordingly volume I contains the papers concerned chiefly with problems of variation, and volume II those dealing mainly with heredity."

Agricultural Economics. By George O'Brien, Professor of National Economics of Ireland, University College, Dublin. 195 p. New York, Longmans, Green, 1929.

Based on the author's lectures on agricultural economics in the Albert Agricultural College, Glasnevin, which now forms part of the Faculty of Agriculture in University College, Dublin.

Tierra Mexicana, the history of land agriculture in ancient and modern Mexico, By J. H. Rettinger. 122 p. il. London, Noel Douglas, 1928.

British Breeds of Pure-Bred Pigs. 48 p. il. Reading, Philip Palmer Press, 1928.

An official work of reference compiled for John Thornton & Co., 27 Cavendish Square, London.

North America, An Historical, Economic and Regional Geography. By Ll. Rodwell Jones, Professor of Economic Geography, University of London, and P. W. Bryan, Head of the Department of Commerce and Lecturer in Geography, University College, Leicester, England. 2d ed. rev. and enl. 559 p. London, Methuen & Co., Ltd., 1928.

DUPLICATES AVAILABLE FOR EXCHANGE
U. S. Department of Agriculture Library

Society Publications

American veterinary medical association. Proceedings, 1913.
Iowa academy of science. Proceedings, vol. 7, 9-12, 24, 26, 33.
Liverpool literary and philosophical society. Proceedings, no. 25, 27-29,
31-33, 38, 40, 46-49, 51-54, 56-63, 66-68. 1873-1926.
Maryland agricultural society. Report, vol. 8, 9, 12. 1923-1924, 1927.
Michigan academy of science, arts and letters. Papers, 1921.
Royal agricultural society of England. Agricultural research in 1927.

Herdbooks

American Duroc Jersey record, vol. 46, 47, 50-51, 53.
American Poland-China record, vol. 77, 79. 1920.
National Spotted Poland-China record association, vol. 1-2, 5-6. 1916, 1919.

Books

Deforested America. By Major George P. Ahern. 79 p. Washington, D. C., 1928.

Der deutsche schaferhund in wort und bild, von Rittmeister v. Stephanitz. 771 p. Jena, 1921. \$2.00.

Imperial agricultural research conference, 1927. Report and summary of proceedings.

National cooperative marketing conference, Proceedings, 1925, 1926.

Les laines et l'élevage du mouton au Maroc. 199 p. (Service de l'élevage, Direction générale de l'agriculture du commerce et de la colonisation) 1928. 50 cents.

L'hérédité chez la betterave cultivée, par Jacques Leveque de Vilmorin. 153 p. Paris, 1923. 50 cents.

Modern roadmaking with special reference to materials and plant. By Harold Bradley and C. C. Hancock. 312 p. London, 1928. \$1.00.

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WANTS

The Agricultural Library of the Chico State Teachers College, Chico, California, wishes to obtain the following publications which are lacking in its files:

U. S. Department of Agriculture, Farmers' Bulletins, 1, 4, 7, 10, 12, 12, 1228.

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-368-

STATE AGRICULTURAL OUTLOOK REPORTS

Comp. by Esther M. Colvin, Bureau of Agricultural Economics Library,
U. S. Department of Agriculture

The last issue of Agricultural Library Notes contained a short article by Katharine Jacobs on the Agricultural Outlook Reports of the U.S. Department of Agriculture. It was thought that the librarians of agricultural libraries would be interested in tracing the reports prepared by the states, which are mentioned in the article.

California

California. University. College of agriculture, Agricultural extension service, Berkeley. The 1929 agricultural outlook for California. (Its Circ. 27. 1929. 47p.)

Colorado

Colorado. State agricultural college, Fort Collins. Agricultural outlook for Colorado. (In its News Notes. Feb. 9, 16, 23, Mar. 2, 1929) Covers poultry and eggs, potatoes, hogs, beef cattle.
"As condensed from national outlook report of U.S.D.A."

Delaware

Delaware. University. Extension service in agriculture and home economics, Newark. The Delaware agricultural outlook report for 1929. (Its Extension circ. no. 24, Mar. 1929. 21p.)

Georgia

Georgia. State college of agriculture. Extension division, Athens. The agricultural outlook for Georgia farmers 1929, by Kenneth Treanor... Athens, Ga., 1929. 16 numb. 1.
Mimeographed.

Idaho

Idaho. University. College of agriculture, Moscow. Production and market factors interpreted to help farmers in their plans for the 1929 season. (Its News Letter, v. 13, no. 19. Mar. 1929. Special outlook ed. 4p.)

"It is expected that in the April issue the situation facing producers of the important field crops will be presented."

Illinois

Illinois. University. College of agriculture. The agricultural outlook for Illinois, 1929. Urbana, Ill. 1929. 24p.
Mimeographed "on paper manufactured from cornstalks grown in the fields of Illinois."

Illinois. Department of agriculture, Springfield. Illinois crop and livestock reporter. (Its Circ. 386, Feb. 1, 1929. 12p.)
Contains the state livestock outlook for 1929.

STATE AGRICULTURAL OUTLOOK REPORTS (Cont'd)

Indiana

Purdue university. Agricultural college. Department of agricultural extension Lafayette. The agricultural outlook for Indiana 1929. Lafayette, Ind. 1929. 18p.

"Based largely on the Agricultural Outlook Report of the United States Department of agriculture."

Mimeographed.

Iowa

Iowa. Agricultural experiment station, Ames. The Iowa agricultural outlook for 1929, by C. L. Holmes. (Its Report (Current economic series) no. 8, Mar. 1929. 39p.)

Iowa. State college of agriculture and mechanic arts. Extension service, Ames. Summary of Iowa agricultural outlook (Summary of Federal Outlook Report for 1929) by J.C. Galloway. (Its Special Bulletin. Feb. 1929. 4 p.)

Kansas

Kansas. State agricultural college, Department of agricultural economics, Manhattan. The cattle outlook [by] W.E. Grimes, H.J. Henney, and R.M. Green. [Manhattan, 1929] 4 numb. 1.
Mimeographed.

Kentucky

Kentucky. University. College of agriculture. Department of markets and rural finance, Lexington. The agricultural outlook for Kentucky in 1929. [Lexington, 1929] 18 numb. 1.

Mimeographed.

Maryland

Maryland. State department of markets, Annapolis. The 1929 agricultural outlook for Maryland. (In its Market News Letter. v.5, no.3. Mar. 1, 1929. 6 numb. 1.)

"Based partly upon the general agricultural outlook for the United States by the U.S.D.A. and partly upon information pertaining to conditions in Maryland."

Mississippi

Mississippi agricultural and mechanical college, A. and M. College. [Agricultural outlook 1929] [A. and M. College, 1929] 6 1.

Typewritten.

Covers livestock, poultry, strawberries and peaches.

Mississippi agricultural and mechanical college. Extension division, A. and M. College. [Agricultural outlook reports for 1929] [A. and M. College, 1929] 5 1.

Covers the dairy outlook, the potato, watermelon and sweet potato situations.

STATE AGRICULTURAL OUTLOOK REPORTS (Cont'd)

Missouri

Missouri. University. College of agriculture. Agricultural extension service, Columbia. [Outlook reports] for 1929. [Columbia, 1929] 5 numb. 1. Mimeographed.

Montana

Montana. State college of agriculture and mechanic arts. Extension service in agriculture and home economics, Bozeman. The Montana agricultural outlook for 1929. (Its Emergency Leaflet. no. 4. [8]p. Mar. 1929)

Nebraska

Nebraska. University. College of agriculture, Lincoln. The agricultural outlook for Nebraska, 1929. [Lincoln, Nebr., 1929] 16p. In cooperation with the U.S. Department of agriculture.

Nevada

Nevada. University. Agricultural extension division, Reno. [Agricultural outlook reports for 1929] (Its Agricultural News Service, no. 16, 21-26, 31-33, 38, Feb. 14, 21, 27, Mar. 2, 6, 13, 16, 25, Apr. 3, 1929.)

Covers onions, hay, the dairying industry, cantaloupes, potatoes, eggs, beef cattle, hogs, sheep and wool.

New England

New England research council on marketing and food supply. The New England agricultural outlook for 1929... Boston, Mass., 1929. [4]p.

New Jersey

New Jersey. State college of agriculture, New Brunswick. The agricultural outlook for New Jersey farmers, 1929. 9p. Mimeographed.

New Mexico

New Mexico agricultural college, Extension service, State college. Agricultural outlook report made for 1929. (In its New Mexico Extension News. v.9, no.2, Feb. 1929. p.1,4.)

New York

New York (State) Department of agriculture and markets. The 1929 agricultural outlook for New York. [Albany, 1929] 18 numb. 1. Mimeographed.

North Carolina

North Carolina. State college of agriculture and engineering. Department of agricultural economics, Raleigh. [Outlook reports for 1929] [Raleigh, 1929] 18 1.

Contains reports for cotton, tobacco, cabbage, potatoes, strawberries, sweet potatoes, peanuts, dairy products, hogs, poultry, and peaches.

Mimeographed.

STATE AGRICULTURAL OUTLOOK REPORTS (Cont'd)

North Dakota

North Dakota. Agricultural college. Agricultural extension division, Fargo. Annual farm outlook for 1929. (In its North Dakota Farm Outlook. v.4, no.5. Feb. 9, 1929. 16p.)

Ohio

Ohio. State university. College of agriculture. Department of rural economics, Columbus. The agricultural outlook. (In its Timely Economic Information for Ohio farmers. no.14. Feb. 1929. 8p.)

Oklahoma

Oklahoma agricultural and mechanical college. Extension service, Stillwater. Agricultural outlook for Oklahoma 1929, by J.T. Sanders, P.H. Stephens, O.W. Herrmann, T.S. Thorfinnson, and J.F. Page. Stillwater, Okla., 1929. 16p. (Its Circ. no. 253, General series 92.)

Oregon

Oregon. State agricultural college. Extension service, Corvallis. Agricultural outlook for 1929... Corvallis, Ore., 1929. 47p. Mimeographed.

South Carolina

Clemson agricultural college, Clemson College. The agricultural outlook for South Carolina - 1929. (Its Circular. 97. Mar. 1929. 15p.)

South Dakota

South Dakota. State college of agriculture and mechanic arts, Extension service, Brookings. South Dakota agricultural outlook for 1929. (In its South Dakota Monthly Farm Outlook. no.44. Feb. 1929. 16 numb. 1. Mimeographed.

Virginia

Virginia. Agricultural and mechanical college and polytechnic institute. Extension division, Blacksburg. The agricultural outlook for 1929. (In its Extension Division News. v.11, no. 5. Mar. 1929. p.1,4,7)

Washington

Washington (State) State college. Extension service, Pullman. Washington farm situation, February 14, 1929, by R.M. Turner... [Pullman, 1929] 3 numb. 1.

Mimeographed.

West Virginia

West Virginia. State department of agriculture, Charleston. Agricultural outlook for West Virginia, 1929. [Morgantown, W. Va., 1929] 8p.

West Virginia. State department of agriculture, Charleston. Agricultural outlook for West Virginia, 1929. no.2. [Morgantown, W. Va., 1929] 6 p.

SELECTED LIST OF MIMEOGRAPHED PUBLICATIONS
of the U. S. Department of Agriculture
issued during March, 1929, exclusive of current issues of serials.

Bureau of Agricultural Economics

Agricultural economics; a selected list of references. Compiled by Mary G. Lacy. Agricultural Economics Bibliography no. 1, rev. 1929. 18 p. (Issued by the library)

Marketing Arizona lettuce. Summary of 1928 spring season. By Bryce Morris. 22 p. (Issued by Division of fruits and vegetables)

Marketing Louisiana strawberries. Summary of the 1928 season. By H. F. Willson. 25 p. (Issued by Division of fruits and vegetables)

Marketing the cabbage crop of the Lower Rio Grande Valley of Texas. Summary, 1928 season. By W. D. George. 25 p. (Issued by Division of fruits and vegetables)

Proposed classification of leaf tobacco, covering forms, classes, types, and groups of tobacco. 11 p. (Issued by Division of warehousing)

Bureau of Animal Industry

World survey of livestock improvement, abstracted from U. S. Consular reports and official documents of countries. By John Roberts and D. S. Burch. 45 p. (Issued by Editorial office)

Bureau of Dairy Industry

List of publications of the Bureau of dairy industry from July 1, 1924, to December 31, 1928, 26 p. Dairy library list no. 1. (Issued by library)

Publications of the Department of agriculture relative to dairying available for free distribution. 5 p. Dairy library list no. 2. (Issued by library)

Extension Service

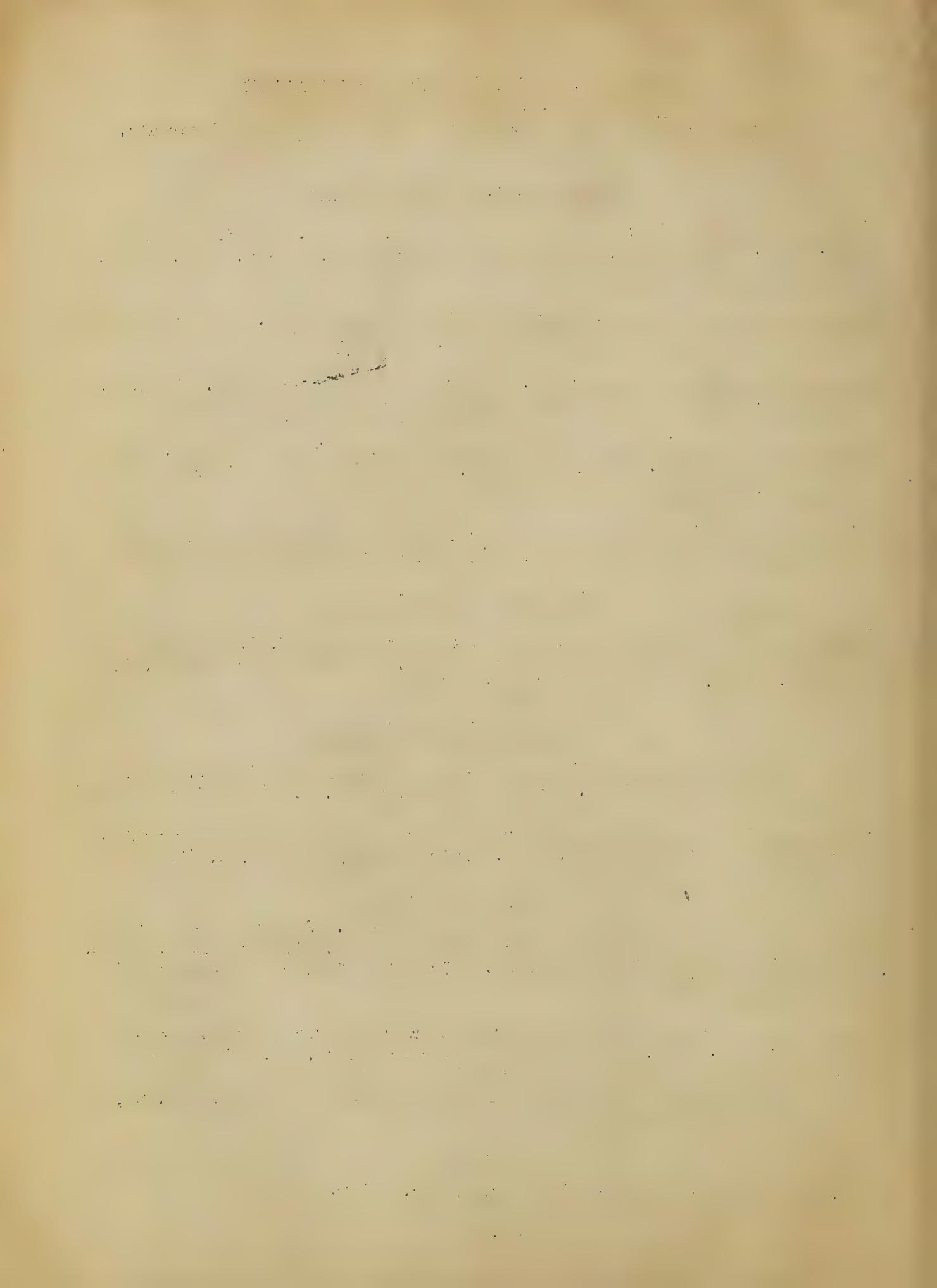
Extension results as influenced by various factors. A study of 451 farms and farm homes in Jackson and Menominee Counties, Michigan, 1928. 24 p. Extension service circular no. 97. (Issued by Office of cooperative extension work)

How to find and apply economic material as a background for a farm and home program. 5 p. Extension service circular no. 98. (Issued by Office of cooperative extension work)

Paper read before the North Atlantic regional conference, Feb. 26, 1929, by Eugene Merrill.

Library

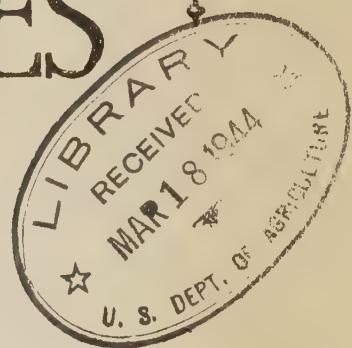
Selected list of American agricultural books. 30 p.



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Reserve

AGRICULTURAL LIBRARY NOTES

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ISSUED MONTHLY
BY THE

UNITED STATES DEPARTMENT OF AGRICULTURE LIBRARY
WITH THE COOPERATION OF THE LAND GRANT COLLEGE
AND STATE AGRICULTURAL EXPERIMENT STATION LIBRARIES

WASHINGTON
D.C.

THE TITANIC

AGRICULTURAL LIBRARY NOTES

Vol. 4.

May-June, 1929

No. 5-6.

AGRICULTURAL LIBRARIES SECTION MEETING

Washington, D. C., May 13 and 15, 1929

The Agricultural Libraries Section of the American Library Association held two meetings in the Conference Room of the U. S. Department of Agriculture on May 13 and May 15. Agricultural colleges of the following twenty-one states were represented: Alabama, Connecticut, Delaware, Florida, Illinois, Iowa, Louisiana, Maryland, Michigan, Mississippi, Missouri, Oklahoma, Oregon, Pennsylvania, Rhode Island, South Carolina, South Dakota, Tennessee, Vermont, Virginia, West Virginia. At both meetings, the Chairman, Miss Mary E. Baker, Librarian of the University of Tennessee, presided. Miss Baker announced that the programs of the meetings had been planned to center around the subject of the relationship between the U. S. Department of Agriculture and the agricultural libraries of the country.

To introduce this theme, Miss Claribel R. Barnett, Librarian of the U. S. Department of Agriculture, had been asked to prepare a paper on "The United States Department of Agriculture and its Relations to Agricultural Libraries" which she read at the first meeting. After rapidly reviewing the work of the department as a whole and outlining the present organization and the significance of some of the recent developments in its work, Miss Barnett took up in detail the relations of the department to agricultural libraries as follows:

"We have seen that the basic ideas back of all these developments have been coordination, cooperation, and close relationship. Is there not the same need for coordination, correlation, cooperation, and close relationship in the work of the libraries of these institutions and are we making the efforts which we should along this line? Among the scientific and extension workers the more important methods for bringing these about have been (1) the supervision of projects, (2) the formation of commodity and regional councils, and (3) discussion of projects, methods, policies, and aims at the meetings of the Association of Land Grant Colleges and Universities. Do not these same methods apply to a considerable extent to the libraries of the institutions concerned?

"Taking our cue from the supervision of scientific projects of the department and of the state agricultural colleges and experiment stations, what central supervision of the projects of the libraries of these institutions is practicable and desirable? Administrative supervision at a central point under present conditions seems entirely out of the question, but what we do need to concern ourselves about at this time is voluntary cooperation and a general policy.

"Cooperation in book purchasing is a subject that is receiving more and more attention in library circles, and it is believed that agricultural college libraries as a group should give this subject much more thought. Our libraries, as well as the institutions with which we are connected, also need 'commodity and regional councils'..."

AGRICULTURAL LIBRARIES SECTION MEETING (Cont'd)

"In working out any cooperative plans for state agricultural libraries in regard to the projects - acquisition, recording, and use, the resources and policies of this library need to be considered. It has been our policy to make our collections on the subject of agriculture and the related sciences as complete as possible. Instead of describing in detail these resources and the work of the library, we have prepared a short mimeographed description of the library which is for distribution at this meeting and which can be read at your convenience. I may say in brief, however, that our special collections now number more than 210,000 volumes. We receive currently 3600 periodicals and as many more reports, proceedings, etc. We have a catalogue consisting of approximately 600,000 cards which includes not only a record of the book resources of the whole department but also a record of most of the books in the Library of Congress and other government libraries of special interest in the work of the department. This catalogue is supplemented by the special indexes in the various bureaus. These combined indexes number another half million cards and, with the main library catalogue, comprise a most extensive index of the literature of agriculture in all its branches. In the various bureau libraries there are also specialists in the bibliography of the subjects in which the bureaus deal. All the library resources in books, catalogues and indexes and all the bibliographical assistance which we can give we are glad to place at the service of the research workers of our sister institutions. In the past many members of the faculties and experiment station staffs of the state agricultural colleges have spent from a day or two to several months working with our collections and we shall heartily welcome as many as may wish to come in the future. We ... would recommend that ... the librarians and library assistants from the colleges be sent to the department occasionally when it is necessary for them to prepare some extensive bibliography needed by their institution or to make some historical investigation in subjects in which this department specializes...

"While the department library wishes to render all the assistance possible to the state colleges and experiment stations and to other research institutions, there is, of course, a limit to what we can do. We can not, for instance, prepare long bibliographies but we have generally been able to prepare brief lists which have been requested and to verify references. In the course of the work of the department it is necessary for both the department library and the bureau libraries to prepare lists of many different subjects. A number of these are available for distribution in mimeographed form and many more are available in typewritten form and can be borrowed for copying, if desired. On account of the many lists which are already available in the department it is frequently possible to answer requests for bibliographical information without any undue amount of work...

"In the matter of bibliographical work and in connection with duplicates, the library would be glad to be able to do much more if it had more funds at its disposal. This brings up the question whether it might not be possible and desirable for the college and station libraries to contribute toward the salary of an assistant whose time could be devoted to work in connection with interlibrary loans and bibliographical work, and in

AGRICULTURAL LIBRARIES SECTION MEETING (Cont'd)

connection with duplicates. If each state could contribute the small sum of \$50 or \$100 the combined amount would be sufficient to pay the salaries of one or two assistants to do this work. The time of the assistants in the library who do work of this kind at the present time would fully equal the time of one person and much of the work required is of a high order. In view of the fact that the library appropriations, particularly in regard to salaries, have not kept pace with the demands upon them, we have, I must confess, frequently questioned whether we could continue the service which we have been endeavoring to give to the colleges and stations. If the library could have from the states some financial help such as has been suggested, it would greatly simplify our problem. As a matter of fact, there has been an approach to a workable arrangement of this kind in the past in connection with the preparation of the lists of official and non-official sources of state agricultural statistics, two states having cooperated with the department in the preparation of these lists by contributing funds.

"Another cooperative project which would be desirable is the preparation of printed cards for all of the state experiment station publications. These publications, with the publications of the department, constitute the official agricultural publications of the United States. It would seem most desirable that printed cards for the station as well as the department publications should be available and on file in every state agricultural college library and in this department. We confess that we are frequently embarrassed in having to admit that cards for the station publications, with the exception of a few states, are not contained in our catalogue. Last year in connection with our library estimates for the coming year a request was made for the salary of a cataloguer to prepare cards for these publications but I regret to say that we were not successful in obtaining the appropriation. We believe that the preparation of the cards could be finished within one year. If each of the states would contribute \$50 for this purpose the work could be accomplished.

"In speaking of the suggestions which we librarians can obtain from the methods and plans adopted by the scientific workers of the institutions with which we are connected, it will be remembered that reference has been made to the commodity and regional councils. The suggestion contained in these councils is the coordination of the knowledge of the specialists in each field. Would it not be possible to work out a similar plan in building up the resources of agricultural libraries? In nearly every state or region there are one or two agricultural commodities which are of particular interest to that state or region. For example, in Louisiana, rice and sugar cane are the great agricultural commodities; in Colorado, the sugar beet; in California and Florida, the citrus fruits. If each agricultural college library could specialize to a greater degree in one or two commodities, the total resources available would be greatly increased. Objection may be made that no state ever has sufficient money for general purposes to enable it to specialize in any one subject but there is at least one subject in which each state agricultural college library could specialize without undue expense. That is the agricultural publications of its own state. Going a little further,

AGRICULTURAL LIBRARIES SECTION MEETING (Cont'd)

it would also be most desirable if it could make a list of the non-official publications, such as agricultural periodicals and the publications of agricultural societies. If such lists for each state were brought together they would constitute a valuable contribution to the agricultural bibliography of this country...

"As Doctor Herbert Putnam has said, 'This is a cooperative age, an age of joint responsibility.' We agricultural librarians also have a joint responsibility. The degree to which we cooperate will, in large part, be the measure of our efficiency in furnishing adequate library service for agriculture."

In the discussion which followed Miss Barnett's paper, Mr. Wm. H. Powers, Librarian of the South Dakota Agricultural College, moved that in order to realize as effectively as possible the recommendations contained in Miss Barnett's paper, a committee on relationships be appointed by the Chair. This motion was seconded and unanimously carried. The Chairman stated that the names of the committee would be announced at the next meeting. She then asked for the report of the Committee on Bibliographical Aid, which is the only committee of the Section continuing from year to year. This was read by its chairman, Miss Mary G. Lacy, who stated that the committee had prepared a monthly list of references to rural life literature found in books, pamphlets, and periodical articles, for publication in *Rural America*. The personnel of the committee, as now constituted, consists of Louise O. Bercaw, Reference and Bibliographical Assistant, Bureau of Agricultural Economics, U. S. Department of Agriculture; Adeline Cook, Reference Librarian, Washington State College of Agriculture; Jane Frodsham, Agricultural Librarian, University of Missouri; Kathryn M. Stanford, Librarian, Pennsylvania State College; and Julia Wright Merrill, Executive Assistant, Committee on Library Extension, American Library Association.

The report of the Oberly Memorial Committee (published elsewhere in the Proceedings of the A. L. A.) was given by its chairman, Miss Clari-
bel R. Barnett, who stated that this committee, although not a committee of the Agricultural Libraries Section, has a very close connection with it. Miss Barnett introduced to the audience Mrs. A. M. Hannay, Research and Bibliographical Assistant of the Bureau of Agricultural Economics, the winner of the prize this year for her bibliography on Control of Production of Agricultural Products by Governments; Miss Carrie B. Sherfy, Librarian of the Bureau of Dairy Industry, and her assistant, Mrs. Nell V. Smallwood, who received honorable mention for their bibliography on Ice Cream; and Miss Margaret T. Olcott, Assistant Librarian, Bureau of Agricultural Economics, who also received honorable mention for her bibliography on Taxation and the Farmer.

The meeting then adjourned to the Bureau of Home Economics by special invitation of its Chief, Dr. Louise Stanley, who received the guests in person. After being served with refreshments, they were conducted by members of the staff through the various laboratories and work rooms of the bureau.

AGRICULTURAL LIBRARIES SECTION MEETING (Cont'd)

At the second meeting of the Section, on the morning of May 15, the Chairman announced the names of the Committee on Relationships as follows: Mr. Charles A. Brown, Librarian, Iowa State College, Chairman; Miss Clari- bel R. Barnett, Librarian, U. S. Department of Agriculture; Mr. James A. McMillen, Librarian, Louisiana State University and Agricultural College; Miss Lucy M. Lewis, Librarian, Oregon State Agricultural College; Mr. H. O. Severance, Librarian, University of Missouri. The entire meeting was de- voted to the discussion of topics of interest to agricultural libraries. It covered the exchange of duplicates, interlibrary loans, cooperative bib- liographical work, the purchase of books and periodicals from experiment station funds, a union list of periodicals in the land grant colleges, the printing of cards for articles in agricultural encyclopedias, the possi- bility of agricultural librarians meeting at the time of the meeting of the land grant colleges, and other subjects. Summaries of these discussions are given elsewhere in this number.

The Chairman then asked for the report of the nominating committee, which consisted of Miss Mabel Colcord, Chairman, Mrs. Linda E. Landon, and Miss Lucy M. Lewis. Miss Colcord reported that, as it had been decided to have the next meeting of the American Library Association in California, the committee had prepared the slate with that fact in view and nominated as Chairman of the Section for the coming year Mrs. M. J. Abbott, Agri- cultural Reference Librarian of the University of California, and as Secre- tary, Miss Mary G. Lacy, Librarian, Bureau of Agricultural Economics, U. S. Department of Agriculture. The meeting then adjourned.

The number attending each meeting was between ninety and one hundred.

At the close of the second session the library staff of the U. S. De- partment of Agriculture entertained the members of the Section and other invited guests at luncheon. Among the special guests were the Assistant Secretary of Agriculture, the Director of Scientific Work, the Director of Extension Work, the Chief of the Bureau of Home Economics, and the incom- ing president of the A. L. A. The menu was multigraphed by the Duplicat- ing Section of the Department on paper made from New England birch by the Forest Service Forest Products Laboratory at Madison, Wisconsin, and was illustrated by a road picture furnished by the Bureau of Public Roads. The food and beverages, which were produced in the Department for experi- mental purposes, were furnished by the Bureau of Home Economics, the Bureau of Dairy Industry, the Bureau of Animal Industry, the Bureau of Agricultural Economics, the Bee Culture Laboratory of the Bureau of Ento- mology, the Bureau of Plant Industry, and the Bureau of Chemistry and Soils. The menu included chicken salad, cheese, vegetable sandwiches, orange blossom honey, salted peanuts, strawberry and honey ice cream, cake, milk, and iced cassina. Wet weather, by mistake, was furnished by the Weather Bureau, making it necessary to have the luncheon indoors instead of on the Department grounds as had been planned.

Mary G. Lacy,

Secretary.

AGRICULTURAL LIBRARIES SECTION MEETING (Cont'd)

Discussions (Abridged)

I. Exchanges and Duplicates

The first topic of discussion at the second meeting of the Agricultural Libraries Section was the exchange of duplicates. During this discussion, Miss Stanford, Librarian of the Agricultural Library of the Pennsylvania State College, and Mr. McMillen, Librarian of the Louisiana State University, called attention to the fact that they had a large number of duplicates of experiment station publications going back to the early years which they would be glad to give to libraries to complete their files instead of returning them to the states which issued them. Mr. McMillen also said that he had a considerable quantity of duplicate geological reports, some of them quite rare, and that he kept a stock of the Louisiana State University duplicates for exchange purposes. Mr. Severance, Librarian of the University of Missouri, and other librarians reported that it was their policy to return their duplicates to the offices which issued the documents. Mr. Brown, Librarian of the Iowa State College, said that in their library they kept the duplicates in the basement arranged alphabetically by states, as they had frequent demand for duplicate copies for the use of professors and students. The librarians of some of the states called attention to the difficulty they had in returning some of their duplicates of government publications because of the Postoffice requirements that they be wrapped in four-pound packages. Other librarians reported that they returned their duplicates to the office of the Superintendent of Documents in mail sacks without wrapping the publications and that franks were furnished by the Superintendent of Documents' office. There is apparently no uniform practice in the matter.

II. Interlibrary Loans

In the discussion on interlibrary loans, Miss Hawks, Associate Librarian of the U. S. Department of Agriculture, made a plea that borrowing libraries give as definite information as possible in regard to the items wanted and that they give always the author and title of the article it is desired to consult when writing for a periodical. The Library maintains quite a large collection of duplicates and reprints and frequently these can be used in filling out of town requests. It sometimes happens, too, that the volumes called for are unbound and if the page wanted is known it is possible to send only the single number containing the article. Still another reason for giving the page reference is that if the article is too short it is sometimes cheaper to send a photostat copy of the article rather than the volume itself. Miss Hawks also made the plea that the librarian read over the requests after the stenographer has written them to see whether the German words, for instance, are intelligibly spelled and the author and title correctly given.

III. Cooperative Bibliographical Work

The Chairman called on Miss Lacy, Librarian of the Bureau of Agricultural Economics, U. S. Department of Agriculture, to make a statement on cooperative bibliographical work between the states and the Library of the U. S. Department of Agriculture.

AGRICULTURAL LIBRARIES SECTION MEETING
Discussions (Cont'd.)

Miss Lacy: Most of you know that at a meeting in Seattle a tentative plan was worked out for cooperative work between the states and the Library of the U. S. Department of Agriculture in compiling source books of agricultural statistics of the states. Two of these have actually been issued, the one for Alabama and the one for Oklahoma. The one for California is finished and is now being typed. It is going to be a large volume - it will, in fact, consist of two volumes at least 700 pages long, and will undoubtedly be an exceedingly useful volume, as California is a large state with a great variety of climates and crops. We have gone through all of the official publications of California, and Mrs. Abbott, Agricultural Reference Librarian of the University of California, is compiling a similar source book on the unofficial sources of agricultural statistics of California. So far as cooperation in compiling these lists is concerned, Oklahoma sent the assistant librarian to the library of the Bureau of Agricultural Economics for a period of about two months and the reference librarian for about two weeks to assist in the compilation. The remainder of the compilation was done by the Bureau of Agricultural Economics library. In the case of California, the only help we had aside from the help of Mrs. Abbott, in compiling the list of unofficial sources of agricultural statistics was a grant of \$300 from the California College of Agriculture which we used to employ a typist to relieve a member of our trained staff to work on the compilation. This was just a drop in the bucket, however, because we have been working on the California index nearly three years and at certain periods have had two or even three persons engaged on it. The state of Oregon has been desirous of having a list for several years and even had it in the budget several times but it has been dropped out each time. When one of the economists of the Oregon State College who has been trying for some years to get an appropriation for the preparation of the index visited the Bureau last winter he asked me to draw up a cooperative contract in the same way that other cooperative contracts were drawn up in the Bureau. He said that he would present this to his Board and see if he could get a definite appropriation. We did draw up the agreement in exactly the legal form used by the Bureau for its cooperative agreements but no action has as yet been taken by the Oregon authorities. Some preliminary work for Oregon has, however, been done by Miss Haley of the College library staff in compiling a list of sources of agricultural statistics of Oregon. Similar lists of sources of agricultural statistics have been compiled for Idaho and Maryland. It would be a great help if agricultural librarians of other states would compile such lists of the official sources of agricultural statistics of their states. It is not a great task and it serves as a finding list for the person who wants to study a commodity in which any region specializes. It would be a real contribution to this work and would lay the foundation for the indexes later on. When the work is once done it does not have to be done over, though it does of course have to be kept up to date.

At the conclusion of Miss Lacy's report, Mrs. Hand, Librarian of the Oklahoma Agricultural and Mechanical College, testified to the usefulness of the Oklahoma index. The Bureau of Agricultural Economics Library will be glad to furnish to any one interested a copy of the ^{tentative} contract form drawn up in regard to preparation of the Oregon index.

AGRICULTURAL LIBRARIES SECTION MEETING
Discussions (Cont'd)

IV. Are agricultural libraries sharing the federal funds appropriated for agricultural research? If not, what action should be taken?

The Chairman of the Section reported that several members of the Section had been interested in this topic and had asked that it be brought up for discussion. She then called on Mr. McMillen to start the discussion, as he had been collecting some data on the subject:

Mr. McMillen: This is a topic on which there is no uniformity of practice. I made first an investigation in my own institution. The Louisiana State University, when I went there, had been moved to a new campus. I found an agricultural experiment station library, so called, in the basement with a curator in charge of the files of the various experiment station publications as well as the U. S. Department of Agriculture publications, and the person looking after them was probably the oldest employee of the station. The library used to be in New Orleans. In the meantime the general library had been collecting material of the same sort. Previous to the constitution of 1921 the University of Louisiana had received only meagre funds, such as could be wheedled out of the appropriation committees of the legislature. For that reason there had been no definite policy of purchase and acquisition in the library. In fact, a good many books were acquired by reason of the professors' ability to convince the authorities that be - not the librarians - that the book was needed. When a man could not get what he wanted from the library he went to the Director of the station. Over a course of ten years I found some \$3,000 had been used in buying agricultural literature for the station, \$2,000 from federal funds and a little over \$800 from state funds. That means an average of about \$300 a year and this average of \$300 seems to apply to a good many states. The money from the federal government can be used for research. That means research facilities of all kinds, including books and I found that a good many research journals were being bought from this fund, some of which never saw the agricultural library. Recently, through cooperation with the Dean, I checked up the holdings of the old station library, comparing it with the holdings of the general library. The files in neither of them had been bound, through lack of funds, and I made the proposition to the Director of the station that I would appropriate or set aside for the station from the general library funds, say \$1,000 or more if the station would give us a similar amount, for the binding of all back files of experiment station publications. The Director said that he could not do it this year but thinks he can next year. In the future all purchasing will be done through the library so that there will be no money wasted and no duplication of files. Sometimes there have been three different files on the campus of a magazine that costs a good deal of money and of course that is waste. One thing that is important is that the library should be the purchasing agency for all of this material instead of each professor going to the station Director and getting permission to buy through their purchasing agency, not through the library, any particular set of books. That will not be done in the future at this institution. Mr. Severance of the University of Missouri, in writing me, said that his Dean had a certain policy and had followed it for several years. I think it may be worth having Mr. Severance describe this policy.

AGRICULTURAL LIBRARIES SECTION MEETING
Discussions (Cont'd)

That seemed to be the only institution which had a definite policy agreed upon between the librarian and the director of the station.

Mr. Severance: I really do not know when we started the arrangement that when we do not have funds in the agricultural library for the purchase of certain journals and sets of books that are needed for research work the Dean will buy them from station funds. He simply sends me titles of the books wanted. The library buys them and the experiment station pays for them. We have close cooperation between the Dean and the librarian. He is anxious to have as good a library as can be found anywhere in the Middle West, so he is willing to put money into it out of the experiment station fund. Just a few days ago my attention was called to a set we ought to have in the agricultural library. I asked him if he would pay for it out of the experiment station fund and he said he would be glad to. He provides a certain amount of money each year out of that fund for the purchase of books and periodicals which would be used primarily by graduate students in research work.

The Chairman then called on Mr. J. I. Schulte of the Office of Experiment Stations, U. S. Department of Agriculture, who had been requested to be present in order to explain the Department's policies and rulings with reference to the purchase of books and periodicals from experiment station funds.

Mr. Schulte: The Department's ruling with reference to the purchase of books and periodicals from the experiment station funds is that only such books and periodicals should be purchased as are directly connected with some investigation. You are familiar with this ruling and are aware that there is perhaps a little more freedom when using Hatch funds than when using Adams and Purnell funds because when you purchase books from the latter funds it must be shown that the books purchased are in direct relation to some project that is being followed at that time, whereas with the Hatch funds it may be projected in the station and not projected in the Department. We have no record in the Department of the Hatch funds but we do have of the Adams and Purnell funds. So the inspector who goes out from the Department is instructed to see that library purchases as well as all other purchases link up directly with some project that is going forward. Many of the stations do not always use the federal funds for the purchase of books. Last year there were 12 stations that used no Purnell funds, 25 stations that did not use any Hatch funds, and 31 stations that did not use any Adams funds for the purchase of books. I want to bear testimony to Mr. Severance's statement about the Missouri library. I am not a librarian but I think that the Missouri library is one of the best of the station libraries that I have seen.

Mr. Brown, Iowa: Many experiment stations have state funds but the amount we receive from the federal agency is almost nothing to what we receive from the state. Sometimes it is easier to obtain \$10,000 from the regular state appropriation than it is to get \$300 from the experiment station. Iowa for some years has spent none of the experiment station funds for the library. We consider that \$300 would not help very much and we made a big fight to get the \$10,000 increase.

Miss Birch, Rhode Island: Rhode Island gets nothing from the state for experiment station work. The entire funds for experiment station work are federal. I would like to ask, in the case of a periodical that had

AGRICULTURAL LIBRARIES SECTION MEETING
Discussions (Cont'd.)

been suscribed to for a number of years whether, if it should no longer have any connection with a special project, it would have to be dropped.

Mr. Schulte: If a man buys a book in connection with a special project he needs it at that time. After he is through with the book, we do not insist that he sell it and return the funds to the particular fund from which it was purchased. The same would be true in the case of a periodical... When the project worker is in need of a publication he has to go to the director first and then the matter of purchase is simply a local policy. We hold the director responsible for the expenditure of these federal funds, so if there is any question about any purchase we go to the director.

Mr. McMillen: There was a sugar station located in New Orleans previous to its being combined with our agricultural experiment station at Baton Rouge. They have a bacteriologist and he has gathered through station funds long files of the chief bacteriological magazines. These have been well expended and well taken care of and since he is the bacteriologist and is constantly at work on sugar experimentation there is one example where long files of periodicals of a very special character have been purchased through these sources.

Miss Barnes, Maryland: Our director is very conscientious and he informed me that through the Purnell fund we might be able to get more books for the library but with respect to periodicals none of the subscriptions could be taken under the Purnell fund because each number had to be taken in connection with some investigation and therefore none of our periodicals have been taken on federal funds.

Mr. Schulte: We take into consideration only the federal funds. The state funds are left to you entirely. Of course, when books are purchased for libraries by federal funds we do not care so much just where the books are kept but we do insist that the experiment station which was the original purchaser at all times have free access.

Miss Lewis, Oregon: We do buy technical periodicals from our state funds to circulate to branch station workers. We buy one additional copy of several technical periodicals that circulate in rotation to branch stations for their accommodation. Books that have been bought from station funds by us may be kept in the departments but usually the station men send those to the general library when they have finished with a definite project so that they are available for research workers.

Chairman: In many cases the organization of the institution to which the experiment station is attached has some bearing upon the procedure. In some cases the experiment station is near the central library and in Louisiana apparently is located in the same building, and these things have a bearing upon the situation. In Tennessee we have quoted Missouri until it is almost time to stop. We wish that the experiment station directors in Washington would mention in various places that the method followed at Missouri is a good one. I think it would help us out. In Tennessee we do have excellent cooperation at present but we do not know from one year to the next how much is available for library purchases. It is dependent upon the director at the moment. In the fall we may be told that we have a certain amount which could be used for binding and by the time the work is completed we are told that the money has been spent for farm labor. We are wondering if a definite portion of the Hatch fund

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could be budgeted for the library so that during the year we would know what to expect.

Mr. Schulte: No, it would be against the Department's ruling to budget any definite amount.

Mr. McMillen: I ought to explain probably that the present practice in Louisiana has taken place within the last year, that is, the new policy and provision to avoid duplication, etc. In fact, the present director having incurred a deficit wanted to bring about uniformity of policy in regard to subscriptions to avoid duplication in the future and he sent all subscriptions for periodicals coming due to the general library so that we could coordinate the two although it doesn't mean that the general library will buy through its own fund.

Miss Lacy: Though not being directly applicable to this phase of the question but having to do with the possibility of certain federal funds being diverted to the library, it may be of interest to mention a question which came up two years ago, I think, with the Virginia Experiment Station. The professor of agricultural economics wrote to me saying that there was a little Purnell money unexpended for that year which would revert to the Treasury if not expended by the close of the fiscal year. He was very anxious to have an index to the official sources of agricultural statistics of the state of Virginia compiled. He wanted to know whether that fund could be diverted to that purpose. I went to see Doctor Allen and took a copy of the Oklahoma index to show him the character of it, and asked him if the Purnell fund could be applied to it. He said no, that it was too broad a bibliography as it covered all the sources of agricultural statistics on every commodity raised in the state of Oklahoma, but that if an experiment in Virginia were under way for which a specific bibliography was needed, the financing of it could be taken out of Purnell funds; for a general bibliography applying to a good many projects and to the whole experiment station work covering the entire state, the Purnell funds could not be used.

Mr. Powers: We have been wondering whether there is any possibility of using the Purnell funds to prepare indexes. Research workers are in need of indexes and there is no general index to experiment station publications except such as is found in the Wilson agricultural index. Could not Purnell money be used for the preparation of indexes if it is definitely known that this is useful to research workers on a particular project? In regard to purchases made outside of the central library of the South Dakota State College, the requisitions in general are approved by the librarian but always the books received are the possessions of the central library and the purchase order is signed by the librarian before the order goes out. We have no duplication in the purchase of serials except in one or two cases. I would like again to ask about the use of Purnell funds for the preparation of indexes.

Mr. Schulte: It would be overhead expense and that would rule it out from federal funds, that is, under the Adams or Purnell funds; you might be able to use Hatch funds for that purpose. The general character of the index would exclude it from the Purnell or Adams funds, I am positive.

Mr. Brown: There is one other point that comes up at various times with librarians who are closely connected with these various projects and that is about some of these projects that seem to go on forever.

AGRICULTURAL LIBRARIES SECTION MEETING
Discussions (Cont'd)

Mr. Schulte: We try to get these projects completed as soon as we can but we have to wait sometimes. I know there are projects that have been in force for 12 or 15 years. In this research you don't know what you are going to get. You are trying to find out and of course it often takes longer to find out than you think it will.

Mr. Brown: Are you still going to continue to issue that list of projects under way? We found that of great value at Ames. I wish that it might come out every year instead of every two years. We used that considerably in the last two months.

Mr. Schulte: Yes, so far as I know, that list will be continued. There is quite a little call for it in this country and also abroad but it involves quite a little work and we have not been able to get it out more than once every two years.

V. Union List of Periodicals

Mr. Powers: The union list of periodicals has not included the holdings of a good many of the agricultural college libraries. As far as that is concerned, a good many colleges and universities are not now included. I do not know what progress has been made to supplement this union list. It seems to me we ought to take steps to be in the line of approach for inclusion in the supplement... It has been suggested that the states themselves should make sure that there are union lists for their own use... It would reduce the element of cost and the time of producing a union list that included holdings in various states. We talked about that at our state association. So far it has not gone beyond talk but I think it very likely that we shall produce in South Dakota a union list of the holdings of serials in the college libraries and the public libraries of the state.

Mrs. Landon, Michigan; I would like to tell the librarians what is being done at Michigan State College. I have caused to be prepared a list of every periodical that is now in the Michigan State College Library and that list will be sent to Miss Barnett within a very few days. While I do not want to impose any burden upon other librarians it seems to me that if such a list were in the hands of the U. S. Department of Agriculture Library it would help in the matter of making loans. The agricultural colleges are not included in that list and if a list of that sort would be sent, would it not be helpful, Miss Barnett?

Miss Barnett: Yes, it would.

Mr. Brown: In the first place, a good many agricultural colleges are included in the union list. Any one could have been who was willing to make an original subscription. I am wondering why Mrs. Landon's suggestion could not well go further. It is unfortunate that very few agricultural colleges are included in the union list. The union list is the best thing for libraries that ever came out. It helps us to fill gaps and to avoid sending duplicates. I am wondering if those libraries not included in the list could not send their list to Miss Barnett. A list like that not including the larger libraries would not be very expensive.

Miss Barnett: This is a project of special interest to me. It is something for the Committee on Relationships to consider. It seems to me it

AGRICULTURAL LIBRARIES SECTION MEETING
Discussions (Cont'd)

might be possible for the Department to print it in mimeographed form and later, when we have a revision of the union list, it might be incorporated in the revised edition.

Mr. Arnett, West Virginia: In regard to the Union List, we make a great deal of use of it. There are times when we do not find what we want in the right section of the country. We are preparing a list of our holdings and will have that list completed this summer. It was undertaken primarily for the benefit of our professors and research men so that they might have in their hands a list of the journals and proceedings that we have in the library, but I should be very glad to turn such a list over to Miss Barnett in the next two or three months if other libraries would do likewise and something would come of it.

Chairman: The Southeastern Library Association is going to prepare a list for that section and the suggestion was made to them that the matter be delayed until the Union List could be published. At that time Tennessee did not think it would be possible to go into the Union List but did expect to purchase it and thought the best way to proceed was to have the Union List in front of them with the titles and a statement of the publications, then compare holdings with it rather than originate the form of entry. Late in October before the list was issued in final form we found that we could get in on a five cents per title basis and with the aid of one of the assistants we did so. Since the list was published we have put it on slips, expecting to publish it in mimeographed form for the use of our faculty. We have now the Union List in book form and we have our holdings on cards and are keeping them up to date at least. We are keeping a supplementary list to add to it, when we finally prepare it. If these lists could go to you, Miss Barnett, in slip form, wouldn't that be better for you?

Miss Barnett: I think that would be better.

Chairman: The thought was in the Southeastern Association that some of the libraries would be chosen as the center and receive slips from the other contributing libraries, file them together and work out such a list for the Southeast. It just occurred to me that the same method might be followed in the case of the land grant colleges.

Miss Lewis, Oregon: Many of the libraries in the Pacific Northwest are not in the Union List. We are considering forming a list of the Pacific Northwest libraries which may or may not be added to the Union List. The two college libraries in Oregon for years have sent lists of their additions to periodicals to each other. We are now planning for a union list for the Pacific Northwest but I am not sure whether that will go through or not.

Chairman: Won't there be considerable expense in doing that?

Miss Lewis: Probably. The plan is not fully worked out and just how far we will be able to carry it out I do not know. The plans are being worked on and further discussion will be had at our fall meeting.

Chairman: Mr. Hepburn of Purdue University was not able to be present, so I will read what he sent in:

"My dear Miss Baker:

I have your letter of the 3d asking me to initiate a discussion of a Union List of Periodicals for land grant libraries. Speaking for myself, I found it financially impossible to cooperate in the Union List as a contributing member and when they offered space for the listings of other libraries, it was too late for us

AGRICULTURAL LIBRARIES SECTION MEETING
Discussions (Cont'd)

to do the necessary work of editing and compiling a list of titles to be included. If the same chance should come up again I would gladly cooperate at least to the extent of listing selected titles of particular merit or interest. Would it not be better to attempt some sort of cooperation in the publication of the supplement to the present Union List rather than to create a new list limited to land grant libraries? It seems so to me at first thought.

"There would doubtless be difficulty in getting the cooperation of all the libraries for a separate list and the cost would be considerable and perhaps that feature alone would prevent many from coming in on such a project. If financial aid were forthcoming from the U. S. Department of Agriculture, that might take care of the money side of the project, but even at that I believe cooperation with the committee working on the supplement to the present Union List would be preferable. They have had considerable experience compiling and financing that list, while if we started one of our own we would have everything to learn."

"Probably this is not very helpful but as there is little time for reflection I send it along for what it is worth."

Miss Greenway, Springfield, Massachusetts: The Massachusetts Agricultural College at Amherst has already made a complete list of all periodicals they have in their library, telling what periodicals they have and when they started taking them. The three colleges in the Connecticut Valley once started a union list of scientific periodicals that were being received in the Connecticut Valley, but with the advent of the Union List of Serials that list was suspended. I have an idea the material is in such form that it would be readily adaptable for any kind of index you would like to make.

Mr. Gulledge, Mississippi: If a library were included in the Union List, would it be necessary to submit a supplementary list to Miss Barnett, that is, from the date of publication of the Union List to date?

Mr. Brown: Probably four-fifths of the land grant institutions are not in the Union List and probably three-fourths of them will not be in the supplementary list, and if there were available somewhere a list of the holdings of those smaller colleges, that list might be of great advantage in building up their sets. It is of those smaller land grant colleges I am thinking and not of the larger libraries that are in the Union List. When these smaller college libraries are spending \$2,000 for books, periodicals and bindings, they probably would not want to spend \$500 to go into the Union List.

VI. The proper treatment of new editions of Farmers' Bulletins when previous editions have already been bound.

Mr. Gulledge: We have worked out in a scientific way the handling of this problem. After a bulletin has been bound and a new edition is published, all we do is write "revised" and the date of revision on the old edition in the bound volume and then file the revisions in pamphlet boxes together. The old bulletin in the bound volume serves as a dummy of the revised bulletin. The only other possibility I see is to have a loose-leaf binder and insert them as they come out.

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Discussions (Cont'd)

Chairman: Our greatest difficulty in Tennessee is with the U. S. Bureau of Standards rather than the Department of Agriculture, because we like to keep many of the Department of Agriculture publications unbound for convenience in use, but with the Bureau of Standards circular our check list card says "substitute new edition for old," and we make no attempt to bind them. We have to take a chance on their disappearing from the box.

Miss Hawks: Here in the Department Library we keep revisions laced into a binder. Of course, in that case they do not directly follow the bound volume always but I should think it might be possible to have them do so if only a few were laced into each binder. In the course of time the bound volume perhaps wears out and when it does the revised editions are put into the volume. Would it not be a good idea, as well as making a note on the old editions bound in the volume, to put a note on the back of the binding? Often when looking for a bulletin you do not look on the title page; you look at the volume, see, for example, "Farmers' Bulletin no. 1000-1025" on the back, and tend to slight the title page, so that I think it is very much safer to depend on a note on the binding rather than on the title page.

Voice: I wonder if anyone makes any protest against this idea of an old number being used for a revised bulletin. I think while we are here in Washington, it is a good time to protest against the same number being used. It is absolutely senseless, for instance, that the same number 17 should be used when No. 591 with an indication that it is a revision of No. 17 would do just as well.

Miss Hunt, Publications: I am in the Division of Publications and believe that the present tendency is to give new numbers to Farmers' Bulletins when they have been revised considerably, because there is such confusion. Sometimes a bulletin when revised very much is issued with a new title and new number, and on the cover it says "This bulletin supersedes Farmers' Bulletin of such a number." Occasionally the revision is very slight and it would make for confusion to change the number.

Mr. Powers: Can the information in the revised edition which supersedes such and such a number be noted in the upper right-hand corner of the bulletin so that we do not have to turn back to the inside cover?

Miss Hunt: It generally is either on the lower right-hand corner of the inside cover page, or on the bottom of the first inside page in a footnote.

Chairman: It might be said for the benefit of those in charge of publications that a little more conspicuous place for the statement that a bulletin is revised or superseded would be helpful to those outside the Department who use the bulletin.

**VII. Printed cards for important articles
in agricultural encyclopedias.**

Mr. Tuttle, Editor of the Book of Rural Life: The question did not originate with us but with Mr. Spaulding of the Des Moines Public Library, I hoped he would be here but I do not think he is. I hope you agricultural librarians to whom this subject may not be so important as it is to the general public libraries will rather think of the question for a moment from the standpoint of the general librarian. You have, of course, a whole library.

AGRICULTURAL LIBRARIES SECTION MEETING
Discussions (Cont'd)

of material in the agricultural or rural field and a general library, if it is a large one, has a considerable amount of that material, but if it is small it has very little. Now what precipitated the question in Des Moines was this: About two months ago they had a perfect run on the library and its branches for material on cattle. The schools were stirred up on a cattle project of some kind or other and the librarians were over-run with calls for cattle material. The reference librarian found by going to the card catalogs that they had a book or two by such men as Eckles and others, and that the condensed articles by those same men in the Book of Rural Life answered the needs of those inquirers better than those things to which the catalog referred, so when those inquirers came to her she turned them to the set which the library had and to those in the branches. But the point was that the public librarians had been training their patrons for years to use the card catalogs, and most of the young people who were searching for cattle material during those weeks did not go to the reference librarian at all or to Mr. Spaulding; they went to the card catalog, and the only place the Book of Rural Life was mentioned in the card catalog was under the standard card. That did not mean anything. When they looked up cattle they did not find the resources of that library, and in this particular instance it required the best resources of that library to answer that particular problem. Mr. Spaulding brought the matter up with our company and I have since taken it up with the Library Association and with others, and I am seeking a point of view on it. I can see at once that we do not want too many such cards. There is a limit to the number of cards that a library would want to incorporate in its files. I went through our subjects and struck off a list of the principal ones and I ran only a hundred. I do not think we would ever want to exceed the hundred mark, maybe less, but if that were to be done at all it would have to be done by a good cataloguer who understands the preparation of such cards. If there is a demand and need for such things in the libraries, I think I can persuade our company that it is a service that should be done, but I want to investigate the whole situation before I make any such definite recommendation, because I do not want to go to the expense of preparing those cards and sending out 100 cards with each Book of Rural Life.

Chairman: The Book of Rural Life is probably of more importance to public libraries than to agricultural libraries, as such. The question might be applied, however, to various encyclopaedias.

VIII. Interlibrary loans of theses and manuscripts.

Miss Miltimore, Florida: We require two copies of masters theses; they are bound and we circulate one copy. We might circulate the other under special conditions. Of some of the early theses we do not have two copies.

Chairman: The question has been brought up I think by the publication of lists which included theses and manuscripts. We would circulate a copy under special conditions.

Mr. Gulledge: Wouldn't it be worth while if the different libraries would submit for Agricultural Library Notes a list of the theses for their institutions for the year? Then we would know what other institutions have.

AGRICULTURAL LIBRARIES SECTION MEETING
Discussions (Cont'd)

Mr. Brown: I am afraid it would take a big volume of Library Notes because we have about seven hundred in a year.

Miss Lacy: Other institutions publish lists of their masters and doctors theses and I think it is a matter for the land grant colleges really to consider, even though there are a great many of these theses. It is a part of our exchange of information with each other, and it seems to me desirable to have some central place where such could be deposited. We have recently been examining a list of masters theses from Columbia University and there are dozens of very interesting titles in the field of agricultural economics. We were very anxious to get hold of those things and wrote to Columbia to ask under what conditions we could borrow them. They said that in some cases they had some copies they could lend, but that they would always be available to graduate students who cared to come there to consult them. I think this difficulty could be ironed out if some sort of knowledge were passed out so that we could know what other institutions have.

Miss Barnett: Are those six or seven hundred theses you have, Mr. Brown, all on scientific subjects?

Mr. Brown: No, not all scientific. I think we could split the list into agricultural and scientific.

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COOPERATION OF THE U. S. DEPARTMENT OF AGRICULTURE WITH THE UNION OF
AMERICAN BIOLOGICAL SOCIETIES

The appropriation of the Office of Experiment Stations for the fiscal year ending June 30, 1930, includes \$5320 for a new project, the formal cooperation of the Department with the Union of American Biological Societies in the publication of Biological Abstracts. As explained in the Experiment Station Record for May, "in the past this periodical, the main offices of which are located in Philadelphia, has been more or less handicapped in making adequate contacts with some of the literature dealing with the biological sciences in their applications to agriculture. Plans now being formulated look toward the amelioration of this condition by utilizing this grant largely for additional personnel to examine the publications received by the Department Library and to arrange for the abstracting in Biological Abstracts of such basic material as is pertinent to its field. This service by the Department will also be supplemented under a grant to the library itself of \$5,000 additional for the purchase of periodicals primarily for use in such abstracting. Meanwhile Experiment Station Record will continue the practice instituted some months ago of supplying to Biological Abstracts copies of its abstracts of all publications issued by the Department and the State experiment stations. It is expected that in these various ways representation in Biological Abstracts of the more fundamental contributions to agricultural science will be greatly facilitated."

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BIBLIOGRAPHIES

A Bibliography of American Natural History. The Pioneer Century, 1769-1865. Vol. III. The institutions founded between 1845 and 1865.
Bibliography of books. Chronological tables. Index of authors and institutions. Addenda to volume I. By Max Meisel. 749 p. Brooklyn, The Premier Publishing Co., 1929.

This is the final volume of this series. It will be recalled that volume 1 was awarded the first Eunice Rockwood Oberly Memorial Prize.

Periodical Mimeographed Publications of United States Government Bureaus.

Press releases, preliminary and informal statements issued at regular intervals. Compiled by the Bibliography Committee of the Financial Group of the Special Libraries Association. 76 p. 1929. (Mimeographed)

"The aim of this list is to produce an aid for the T. B. L. (Tired Business Librarian).... It makes no claim to absolute completeness. As representative collections in New York City business libraries, including the Economics division of the Public Library, were used as the basis, it is felt that the list includes the statements in general use in such libraries. Statements containing only general information, not of statistical or research value from the business point of view, were purposely omitted. The work was checked by authorities in the Government bureaus concerned mainly during 1928 and the information is correct as of that year, but 1929 information has been added wherever possible apart from a complete revision of the list.... The list includes primarily mimeographed statements, press releases and preliminary reports of various kinds, issued at regular intervals of less than one year. There are some exceptions..."

The Library of the Bureau of Agricultural Economics, U. S. Department of Agriculture, has recently prepared the following typewritten bibliographical lists. The lists may be borrowed for copying.

Almonds. Selected references on the culture of almonds and the economics of the industry. 5 p.

Analysis and composition of oranges. 5 p.

Additional references on the country church. 2 p.

A beginning of a bibliography on agricultural credit. 10 p.

Commercial canning of fruits and vegetables, 1924-June, 1929. 13 p.

Cost of marketing, a list of references to the available publications of the U. S. Bureau of Agricultural Economics. 3 p.

Crop reporting and crop estimating in the United States. 6 p.

Danish agriculture, a partial list of references to publications issued since 1914. 11 p.

History of tobacco, a partial list of references. 11 p.

Some suggestions for a study of rural fraternal organizations. 4 p.

Truck farming. 5 p.

AMERICAN BOOKS

Life and Labor in the Old South. By Ulrich Bonnell Phillips, Professor of American History, University of Michigan. 374 p. il. Boston, Little, Brown & Company, 1929.

"Deals with the social and economic history of the South up to 1861. Immigration, the influence of climate and soil, of religion, of race, of the rise of cotton as a staple, of transportation, of the opening of the Southwest, and other elements are traced."

The Farmer and His City Cousin: Rural and Agricultural Problems. By Nelson Taylor. 101 p. Boston, The Christopher Publishing House, 1928.

This work is the first chapter of a larger volume entitled "The Bold Truth About Ourselves - Social - Political - Commercial" which the author planned to present but was unable to accomplish owing to various reasons.

Recent Economic Changes in the United States. Report of the Committee on recent economic changes, of the President's Conference on unemployment, including the reports of a special staff of the National Bureau of Economic Research. 2 v. New York, McGraw-Hill Book Company, 1929.

This survey, begun in January, 1928, and completed in February, 1929, is an analysis of post-war developments in American economic life, particularly those since the recovery from the depression of 1920-1921. The committee consisted of Herbert Hoover, Chairman; Walter F. Brown, Renick W. Dunlap, William Green, Julius Klein, John S. Lawrence, Max Mason, George McFadden, Adolph C. Miller, Lewis E. Pierson, John J. Raskob, A. W. Shaw, Louis J. Taber, Daniel Willard, Clarence M. Woolley, Owen D. Young, and Edward Eyre Hunt, Secretary.

Immigrant Farmers and Their Children. By Edmund de S. Brunner. With four studies of immigrant committees. 277 p. Garden City, N. Y., Doubleday, Doran & Company, 1929. (Publication of the Institute of Social and Religious Research)

The first part of the book gives the results of a study made to ascertain how many immigrant farmers there are in the United States, how they distributed over the country, and something regarding their characteristics; how the immigrants as farmers measure up to American standards; whether they and their children are intellectually handicapped; and how they have adapted themselves to the social life of the country areas. Intensive studies were made of four different types of communities to afford more intimate knowledge than the general study itself could give of the problems encountered by our immigrant farmers. These four case studies form the second part of the book.

The Mexican Agrarian Revolution. By Frank Tannenbaum. 543 p. New York, The Macmillan Company, 1929. (Publication of The Institute of Economics, The Brookings Institution)

"Mr. Tannenbaum has given a broad and detailed view of Mexican land institutions based securely on the historical developments of the revolution and a survey of pre-revolutionary conditions and practices. To secure the material necessary for such an account of the matter he spent fourteen months in Mexico, where he had the benefit of the most cordial cooperation of government agencies and made extensive travels into remote and unfrequented parts of the country." (Director's preface.)

AMERICAN BOOKS (Cont'd)

Southern Rural Life. The Problem - The Solution. Opening the way for men to become farm owners. 28 p. il. Prepared and published by the Associated Committees on Southern Rural Development. 1929.

Pursuant to an Act passed by the 29th Congress (May 10, 1926) in which a small appropriation was made to the Department of the Interior for the purpose of preliminary investigation of certain lands that might be developed, etc., the Secretary of the Interior appointed three Special Advisers to investigate and report. The small appropriation and the obvious benefits which would come from planned rural development in the South caused the Secretary of the Interior to restrict the field of this present investigation to the states of North Carolina, South Carolina, Georgia, Alabama, Mississippi, and Tennessee. The Committee of Advisers visited the various states and inspected tracts of land suggested by representatives in each of these states in conjunction with the state colleges of agriculture. The Advisers made an exhaustive report of their findings and this pamphlet gives the salient points of their report.

Quality as a Determinant of Vegetable Prices. A statistical study of quality factors influencing vegetable prices in the Boston wholesale market. By Frederick V. Waugh, Senior Agricultural Economist of the United States Bureau of Agricultural Economics. 154 p. il. New York, Columbia University Press, 1929. (Studies in History, Economics and Public Law, edited by the faculty of Political Science of Columbia University. No. 312)

"This study deals with the influence of such quality factors as size, color and firmness on the market prices of three vegetables - asparagus, out-door tomatoes, and hot-house cucumbers."

Merchandising Packinghouse Products. By E. L. Rhoades, Assistant Director, Institute of Meat Packing, with the cooperation of sales executives of the packing industry. 452 p. il. Chicago, Univ. of Chicago Press. 1929.

"This is the first of a series of publications on important merchandising problems of the packing industry. The second volume, now in preparation, deals with the chain-store problem, and other studies will have to do with consumer attitude and the importance of containers used in the marketing of meat and meat products. These studies will be supplemented by reports on distribution practices in typical restricted areas." (Preface)

Meat Through the Microscope. Applications of chemistry and the biological sciences to some problems of the meat packing industry. By C. Robert Moulton, Director, Department of Nutrition, Institute of American Meat Packers. 528 p. il. Chicago, The University of Chicago Press, 1929.

"In a sense this book is a revision of, or, better, a successor to, 'The Service of Science in the Packing Industry' which was the outgrowth of a course of lectures given in the Institute of Meat Packing during the autumn quarter of the school year 1923-24. However, the book is in large part a new venture and presents a large amount of new material." (Preface)

AMERICAN BOOKS (Cont'd)

Laboratory Handbook for Dietetics. By Mary Schwartz Rose, Professor of Nutrition, Teachers College, Columbia University. 3d ed. rev. 269 p. New York, The Macmillan Company, 1929.

"In the eight years since the publication of the second edition of this handbook, there has been an increasing appreciation of the very great importance of the mineral elements and vitamins in nutrition, and a corresponding desire to know the relative amount of at least some of these occurring in common... The present revision has aimed at making as readily available as possible our quantitative knowledge of foods from the new angle as well as the old." (Preface to 3d edition)

Fritz Bahr's Commercial Floriculture. A practical manual for the retail grower. By Fritz Bahr. 3d ed. rev. 615 p. il.

In this edition some changes have been made, especially in the case of variety references, in order to keep it up to date, but essentially it is the same as the original text.

Lawns. By F. F. Rockwell. 87 p. il. New York, The Macmillan Company, 1929. (Home Garden Handbooks)

Agricultural Education in the United States. By Whitney H. Shepardson. 132 p. New York, The Macmillan Company, 1929.

"Writing from outside the professional ranks, the author has felt free in this book to raise certain delicate questions regarding not only the internal organization of agricultural teaching, research, and extension, but the relation of agricultural education to the national economy... The book embodies the results of some four years' study of American agricultural institutions. This study was carried on for the General Education Board. Mr. Shepardson was engaged in active business before he made this report, and returned to business after making it. His approach to the subject, therefore, is that of a layman. The reader will find the book a fresh story, both sympathetic and critical, of the history and present organization of the Land Grant Colleges, with a careful examination of their function in the American scheme." (Publishers' announcement)

The Role of Research in the Development of Forestry in North America.

By I. W. Bailey, Bussey Institution for Research in Applied Biology, Harvard University, and H. A. Spoehr, Division of Plant Biology, Carnegie Institution of Washington. 118 p. New York, The Macmillan Company, 1929.

Insect and Disease Control as a Branch of Forest Protection. By Samuel B. Detwiler, Principal Pathologist, Bureau of Plant Industry, U. S. Department of Agriculture. Lecture delivered at Yale University, May 16, 1927, before the class in Forest Protection. 28 p. New Haven, Yale University, 1929.

Patio Gardens. By Helen Morgenthau Fox. 228 p. il. New York, The Macmillan Company, 1929.

This book not only describes the old and new gardens of Spain but suggests how to adapt them and their parts to New World tastes and climates.

AMERICAN BOOKS (Cont'd)

Insects and Their Control. By Andrew Wilson. 342 p. il. New Brunswick, N. J., Printed by Thatcher-Anderson Co., 1929.

"This book was prepared with the idea of helping the home owner to learn more about the habits and injuries of insects, stimulating his interest in their control and advertising the products of Andrew Wilson Co., Inc. (Springfield, N. J.) wherever they can be used."

(Introduction)

The Problems of Applied Entomology. By Robert A. Wardle, Professor of Zoology, University of Manitoba. 567 p. il. New York, McGraw-Hill, 1929.

The following is from the author's preface: "The first part of this book may be regarded as supplementary to the work entitled 'Principles of Insect Control' by the late Philip J. Buckle and myself, published in the year 1923, and with certain exceptions of historical, bibliographical, or resumptive importance, cognizance has only been taken of entomological work which has appeared since 1922... The second part of the book breaks new ground in that it attempts to present to the entomologists of any one country some conception of the problems which face his confrères in other countries... An attempt has been made to provide a bibliography which is reasonably complete..."

Yearbook of the U. S. Department of Agriculture, 1928. This volume is the third of a series distinctively characterized by short articles reporting recent developments in agricultural science and practice. Intended primarily for the general reader rather than for the technician or the student, the book is varied in content and nontechnical in style. It contains articles on most aspects of farming from soil preparation to marketing.

Certain branches of the Department's work can not be adequately discussed in short articles. Accordingly these subjects are not represented in the volume. It is nevertheless very comprehensive. Some of the articles outline studies that will receive more detailed treatment in later publications. New knowledge about animal and plant breeding, the control of diseases and pests, the conservation of soil resources, the economic problems of agriculture, highway construction and maintenance, meteorology and many other subjects are discussed, though necessarily with brevity. There are two library articles, one by Miss Mary G. Lacy, Librarian of the Bureau of Agricultural Economics, on "Economics Literature: Monthly Review Aids the Extension Worker", and one by Miss Claribel R. Barnett, Librarian of the Department, on "Bibliographical Aids to the Use of Recent Agricultural Bulletins."

Besides the articles, which are alphabetically arranged under the general title "What's New in Agriculture", the book contains the annual report of the Secretary of Agriculture (Secretary Jardine's last report), and the customary compilation of agricultural statistics. Many of the statistical tables give figures for the entire calendar year 1928. So far as the material permits, the statistics give historical and geographical series. Thirty maps present the principal geographic aspects of American agriculture and indicate the approximate distribution of the more important crops and farm animals. Separate indexes with cross references are provided for the articles and for the statistics.

ENGLISH BOOKS

Travels in France During the Years 1787, 1788 and 1789. By Arthur Young. Edited by Constantia Maxwell, Lecturer in Modern History, Trinity, Dublin. 428 p. Cambridge, University Press, 1929.

Arthur Young was the first secretary of the Board of Agriculture of England. He "did not found any new system of agriculture, but for all that he had more influence upon English husbandry than any other individual of his time. It was he who preached and popularized the new and improved practices of agriculture which characterized the end of the eighteenth century in England. It was due to him to a very great extent that large farming was substituted for small, that the enclosure of common fields made such rapid progress, and that new rotations of crops were substituted for periodical fallows. As a practical farmer he was a failure and his mind was not free from political and economic prejudice. His reputation was founded on the extraordinary enthusiasm he had for farming, which he was able to pass on to others, his tireless energy in making experiments, and the unceasing flow of words which came from his vivacious pen. Never a competent artist in his own life or business, he was one of those who are a store of wisdom for others, for despite his crotches, he was possessed of an unusual fund of common sense, he accumulated an extraordinary amount of information, and he was an accurate observer..... The travels, written as they are with complete spontaneity, sufficiently reveal his character. They show us an intelligent squire of his age and nation, clear-headed and aloof, alternating with a romantic of the school of Rousseau, and a monomaniac whose passion was agriculture..... Young was very highly thought of by his foreign contemporaries, and was an honorary member of countless Continental agricultural societies. He corresponded with many eminent people such as La Fayette and Washington, and persons of various nationalities visited Bradfield to be instructed by him in husbandry. In 1801, by order of the Directory, a selection of his agricultural works was translated into French and published in Paris in eighteen volumes under the title of 'Le Cultivateur Anglois'. His principal books were also translated into German and Russian. Though the writings of Arthur Young upon agriculture have now lost much of their former interest, the French Travels will never be out of date, because of their unrivalled value as a historical document." The present edition of his Travels in France is a reprint of his Journal of his three French journeys, together with a selection from his "General Observations" upon economic conditions in France.

Agricultural Cooperation in the Soviet Union. By G. Ratner, Member of the Board of the Union of Agricultural Cooperative Unions. Edited by the Horace Plunkett Foundation. Translated by M. Digby. 90 p. London, George Routledge & Sons, Ltd., 1929.

This pamphlet does not give a detailed analysis of the cooperative movement in general, but limits itself to a description of the actual work of the agricultural cooperatives. It was first published in Berlin, in 1928, and the demand for it induced the author to have it published in English. The present work is supplemented by statistical data and recent facts not to be found in the German edition.

ENGLISH BOOKS (Cont'd)

The Thirsty Earth, The Theory and Practice of Irrigation in All Countries.

By E. H. Carrier. 222 p. il. London, Christophers, 1928.

It is the aim of this book to "present to the general reader, and in particular to the student of geography and history, a simple yet adequate account of the more important aspects of irrigation in different parts of the world."

Insect Singers, A Natural History of the Cicadas. By J. G. Meyers, Imperial Bureau of Entomology. 304 p. il. London, George Routledge & Sons, 1929.

"It is an anomaly that to the cicadas, insects which have excited man's interest from the mists of antiquity to the present day, no comprehensive work in any language has yet been devoted. It is hoped that the present volume may fill the gap to the extent of showing, firstly, what is at present known about the lives of these insects, and secondly, what abundant new problems they offer to the general biologist and to the psychologist as well as to the entomologist."

(Preface)

Statistical Methods for Research Workers. By R. A. Fisher, Chief Statistician, Rothamsted Experimental Station. 2d ed. rev. and enl. 269 p. London and Edinburgh, Oliver & Boyd, 1928. (Biological Monographs Manuals, no. 5)

"Often the analysis of large masses of data by statistical methods is necessary, and the biological worker is continually encountering advanced statistical problems the adequate solutions of which are not found in current statistical text-books. To meet these needs the present monograph was prepared." (Preface)

CONGRESSES

Proceedings of the International Congress of Plant Sciences, Ithaca, 1926.

Vol. 1. 951 p. Menasha, Wisconsin, George Banta Publishing Co., 1929.

"Volume 1 includes two addresses before the Congress as a whole and most of the papers presented in seven sections: Agronomy; Bacteriology; Cytology; Morphology, Histology, and Paleobotany; Ecology; Forestry; and Genetics. Volume 2 will contain the papers in Horticulture, Physiology, Pathology, Pharmacology and Pharmaceutical Botany, Taxonomy, and Mycology, as well as general and special proceedings. No formal subdivision into the receptive sections has been made in publication, but footnotes are intended to indicate before which sections primarily the various papers are presented." (Foreword)

Xe Congrès International de Zoologie, tenu à Budapest du 4 Au 10 Septembre, 1927. Publié par E. Csiki, Secrétaire Général du Congrès. (Première partie, p. 1-856, Deuxième partie, p. 857-1620). Budapest, Imprimerie Stephaneum S. A., 1929.

Rendiconti del Secondo Congresso Serico Europeo, Milano, 3-6 Giugno, 1927. 452 p. Milano, Tip. Poliglotta, Massimiliano Pecar.

Science in the Netherlands East Indies. Prepared and published for the convenience of the visitors of the Fourth Pacific Science Congress. 432 p. il. Amsterdam, Koninklijke Akademie van Wetenschappen, 1929.

GERMAN, FRENCH AND ITALIAN BOOKS

Die Erzeugungs- und Absatzverhältnisse der deutschen Vieh- und Milchwirtschaft. Bericht einer amerikanischen Studien-Kommission, erstattet auf Veranlassung doutscher Landwirte, Industrieller und Banken. By C. E. Gray, President, Golden State Milk Products Co., San Francisco, Calif., N. W. Hepburn, Director, Peoria Creamery Co., Peoria, Ill., J. C. Marquis, U. S. Department of Agriculture, Washington, D. C., F. B. Morrison, Director, Agricultural Experiment Station, Geneva, N. Y., H. W. Mumford, Dean, University of Illinois, Urbana, Ill., F. A. Pearson, Cornell University, Ithaca, N.Y., H. A. Ross, Cornell University, Ithaça, N. Y., and I. C. Weld, Director, Chestnut Farms Dairy Co., Washington, D. C.

Mittelalterliche Pflanzenkunde. By Hermann Fischer. 326 p. il. München, Verlag der Münchener Drucke, 1929.

This volume is in six parts, as follows: I. Die Reine Botanik der Klöster und Medizinschulen; II. Die im Mittelalter Entstandene und Gedbrückte Botanische Literatur; III. Die Pflanzenbilder des Mittelalters; IV. Angewandte Botanik, Pflanzenbau and Bodenkultur des Mittelalters; V. Pharmazeutische Botanik des Mittelalters; VI. Die Pflanzenbesiedelung Westeuropas im Mittelalter.

Le Tabac. By Guillaume Capus, Ancien Directeur du Service Général de l'Agriculture en Indochine, Fernand Leulliot, Professeur à l'Institut National d'Agronomie Coloniale et à l'École d'Application des Manufactures de l'État, and Etienne Foëx, Directeur de la Station centrale de pathologie végétale. Tome Premier. 418 p. il. Paris, Société d'Éditions Géographiques, Maritimes, et Coloniales, 1929.

Le Lait au Point de Vue Colloïdal. Recherches sur le mécanisme de l'action de la presure. (La méthode synthétique dans l'étude du lait) By Ch. Porcher, Professeur a l'École Nationale Vétérinaire de Lyon. 530 p. Lyon, "Le Lait" (2, Quai Chauveau), 1929?

Die landwirtschaftlichen Genossenschaften in der Sowjetunion. By G. Ratner, Moskau. 64 p. Berlin, Verlagsbuchhandlung Paul Parey, 1928.

Il R. Istituto Superiore Agrario in Portici, 1872-1928. 601 p. il. Spoleto, Arti Grafiche Panetto & Petrelli, 1928.

This large, well illustrated volume is devoted to the history and description of the Regio Istituto Superiore Agrario di Portici (near Naples), formerly called Regia Scuda Superiore d'Agricoltura. Plans of the buildings and grounds are given in the first part of the work, also an account of the various departments of the institution, including the library. Lists of the publications of scientists in charge of the departments follow the descriptions of the respective departments. A list of the professors and assistants since the organization of the institute occupies about 75 pages. An "indice general" of the publications of the institute forms part of the volume but is rather a table of contents than an index, as it is arranged chronologically. A catalogue of the periodicals in the library is a feature of interest. The volume ends with 96 views of the institute buildings and grounds.

THESES

Teachers' College, Columbia University, New York City, has recently published the following theses which were submitted in partial fulfillment of the requirements for the degree of Doctor of Philosophy in the Faculty of Philosophy, Columbia University:

Participation in curriculum making as a means of supervision of rural schools. By William J. Holloway. 54 p.

The development of the teaching of agriculture in Mississippi, with special emphasis on agriculture as a part of school curricula. By Ronald J. Slay. 194 p.

Bibliography: p. 191-194.

The administration of home economics in city schools. A study of present and desired practices in the organization of the home economics program. By Annie Robertson Dyer. 143 p.

Bibliography: p. 134-143.

The following thesis was submitted in partial fulfillment for the degree of the Master of Arts in Economics in the Graduate School of the University of Illinois, 1929:

The Bureau of Agricultural Economics of the United States Department of Agriculture. By Chung Gen Lin. 166 p. Typewritten.

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PERSONAL ITEMS

Miss Lydia Friedmann, Librarian of the Oklahoma Agricultural Experiment Station, is spending two months this summer in the Library of the U. S. Department of Agriculture and is also taking the summer course at the George Washington University Library School.

Mr. Willard P. Lewis, Librarian of the University of New Hampshire, has resigned to accept the position of Librarian of Wesleyan University at Middletown, Connecticut.

Miss Viola Elver, Librarian of the New York State Agricultural Experiment Station at Geneva, is resigning on July first to accept a position in the Animal Husbandry Department of the New York State College of Agriculture.

Mr. Charles H. Brown, Librarian of the Iowa State College, has been spending several weeks during May and June at the U. S. Bureau of Education in work connection with the Survey of the land grant colleges.

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FUNDS AVAILABLE IN THE UNITED STATES FOR THE ENCOURAGEMENT OF RESEARCH
IN APPLIED PLANT SCIENCES.

Compiled by Dorothy St. J. Manks, Librarian,
Massachusetts Horticultural Society.

The list which follows is compiled from Bulletin no. 66 of the National Research Council, entitled "Funds available in the United States for the support and encouragement of research in science and its technologies," second edition, published by the National Research Council of the National Academy of Sciences, Washington, D. C., 1928. The bulletin presents information on money available (as of 1928) in the form of medals, prizes, grants, or institutional funds (funds for research within an institution). It does not include federal funds nor departments or bureaus of the government with the one exception of the Smithsonian Institution in its capacity as administrator of certain nongovernmental funds. Neither does it list graduate scholarships and fellowships, since these are to be found in Bulletin no. 38 of the same series.

The term "applied plant sciences" as used here includes plant culture (in agriculture and in horticulture) and such auxiliary sciences as agricultural chemistry, applied botany, plant diseases and pests and their control, plant breeding, soils, and research on special plants. The funds listed are those designated especially for work in plant sciences. Endowments for research in general or for work in broad fields of which plants form only one aspect have not been included, but information regarding them is included in the bulletin.

American Genetic Association. 306 Victor Bldg., 724 Ninth St., N. W., Washington, D. C.

Frank N. Meyer Memorial Medal. Established 1918, for distinctive service in the field of plant introduction. Original fund, \$1000.

American Iris Society. R. S. Sturtevant, Secretary, Groton, Mass.

Research Membership Fund. Established 1925 for research connected with iris. Amount varies with annual contributions. Available in 1927, \$300 to \$600.

American Library Association. 520 North Michigan Ave., Chicago, Ill.

Eunice Rockwood Oberly Memorial Fund. Established 1923, by coworkers and friends of Miss Oberly, formerly Librarian of the Bureau of Plant Industry, U. S. Department of Agriculture, to stimulate the compilation of bibliographies in the field of agriculture or the natural sciences. Original amount, \$1050. Present amount, \$1050. Biennially available, the interest at 4-1/2 per cent on the principal. Awarded in odd years.

American Society of Plant Physiologists. Care Department of Botany.

University of Chicago.

Stephen Hales Prize Fund. Established 1927, to stimulate research. Original amount, \$800. Present amount, \$1000. Biennially available, \$50. Awarded to the person whose research during the two-year period in the judgment of a committee merits the award.

FUNDS AVAILABLE IN THE UNITED STATES FOR THE ENCOURAGEMENT OF RESEARCH
IN APPLIED PLANT SCIENCES (Cont'd)

Boyce Thompson Institute for Plant Research, Inc. Yonkers, N. Y.

The Institute was established September 24, 1924, by a gift from Colonel William Boyce Thompson, for fundamental research on plants and the dissemination of all information obtained to the public. Original amount, \$3,000,000. Present amount, \$8,500,000. Annually available, \$320,000.

Bayer Research and Crop Protection Institute Research. Established 1925, by the Bayer Company, Inc., and the Crop Protection Institute, for studies on fungicides and insecticides and seed-borne parasites. Original amount, \$7,000. Present amount, \$20,375. Annually available, \$20,400.

Fund for the Prevention of Spread of the European Corn Borer. Established 1927, by the U. S. Department of Agriculture, for chemotropic investigations on the European corn borer. Annually available, about \$3,000.

Brooklyn Botanic Garden, Brooklyn, N. Y.

Special Research Fund for Plant Pathology, underwritten by friends of the Garden for a period of three years, terminating with the end of 1928. \$7,500 annually for period covered. Pledge renewed for 1929.

In the distribution of the Botanic Garden budget for 1927, \$37,700 was spent for research.

California, University of. College of Agriculture. Berkeley, Cal.

California Peach and Fig Growers, Inc. Donated for the year 1928-29, \$342.

Forestry Endowment Income. The sum of \$26,062.50 derived from sale of land during 1921-22 yields an income of approximately \$1,500, which has since been used for research in forestry.

Carnegie Institution of Washington. Washington, D. C.

Established 1902, by Andrew Carnegie, with original endowment fund of \$10,000,000. Present endowment and reserve funds, \$30,000,000, yielding an annual income of approximately \$1,600,000. Appropriations are annually made for support of organized research activities within the Institution, as follows: Department of Genetics; Division of Plant Biology (and nine other departments.) In addition, a sum is annually appropriated for support of a limited number of individual projects.

Cornell University. College of Agriculture. N. Y. State College of Agriculture, Ithaca, N. Y.

Charles Lathrop Pack Research Professorship. Established 1927, by the Charles Lathrop Pack Forestry Trust, for the purpose of permanently endowing in Cornell University a chair for research and for current operating expenses of the chair. Capital, \$130,000, and \$5,000 the first year and \$3,000 a year thereafter for two or four years for current operating expenses.

FUNDS AVAILABLE IN THE UNITED STATES FOR THE ENCOURAGEMENT OF RESEARCH
IN APPLIED PLANT SCIENCES (Cont'd)

Crop Protection Institute. Care of the National Research Council, 21st and B Streets, Washington, D. C.

The Institute, since its organization in 1920, has undertaken projects representing total expenditures aggregating more than \$200,000. Most of this money was provided by different industrial organizations for special research investigations and does not constitute a permanent fund. For the year ending June 30, 1928, the total receipts were more than \$53,000. The Institute in August, 1928, was conducting 17 major projects and had work in more than 20 states.

Harvard University. Arnold Arboretum. Jamaica Plain, Mass.

William L. Bradley Fund. Established 1897, for scientific investigation to increase the knowledge of trees. Original amount, \$20,000. Annually available, \$1,157.

Hawaiian Sugar Planters' Association. Honolulu, Hawaii.

Experiment Station of the Hawaiian Sugar Planters' Association. Established 1895, for investigations and research pertaining to sugar cane agriculture and manufacture for the ultimate object of increasing yields and reducing costs of production. Funds voted as needed from moneys subscribed by the plantations of the Association. Annual expenses have increased during the past few years from \$200,000 to \$400,000.

Herman Frasch Foundation. U. S. Trust Co., of New York, Trustee, 45 Wall St., New York, N. Y.

Herman Frasch Foundation for Chemical Research. Established 1927, by will of Elizabeth Blee Frasch, widow of Herman Frasch, for research in the field of agricultural chemistry, with the object of attaining results which shall be of practical benefit to the agricultural development of the United States. Original amount, about \$1,000,000. Present amount, about \$1,000,000. Annually available, about \$40,000. The income is to be paid to one or more incorporated institutions in the United States to be selected by the trustee after advising with the American Chemical Society. Payment of such income to the institutions so selected shall continue for five years, when the work done by the institutions with funds received from the Foundation is to be examined by the American Chemical Society and a report made to the trustee whether in the opinion of the Society satisfactory progress has been made.

Illinois, University of. Urbana, Ill.

Agricultural Experiment Station. Established 1888, for research in agriculture. Annually available, \$469,372.

Sweet Corn Investigation. Established 1923, by Illinois Canners Association. Annually available, \$2,700.

Iowa State College. Ames, Iowa.

Agricultural Experiment Station. Appropriated by State. Exclusive of federal funds, \$245,000.

FUNDS AVAILABLE IN THE UNITED STATES FOR THE ENCOURAGEMENT OF RESEARCH
IN APPLIED PLANT SCIENCES (Cont'd)

Kansas State Agricultural College. Manhattan, Kans.

There are annual appropriations for research in the College, as follows: General research in agriculture, \$80,000; to supplement the Federal funds appropriated under the Hatch, Adams and Purnell Acts for the conduct of research in agriculture, \$82,200; ... soil survey, \$5,000; investigation in crops and soils in southeastern part of the state, \$6,000.

Massachusetts Horticultural Society. 300 Massachusetts Ave., Boston, Mass.

Albert Cameron Burrage Fund. Established 1920, for the purpose of promoting the cranberry industry in Massachusetts. Income to be used from time to time for the purchase of gold medals to be awarded to those residents of Massachusetts, whether private individuals or public officials, who have, during a stated time, either by exhibition of cranberries, or cultivation of the cranberry vine, or scientific research, or technical writing, done most for this industry. Present amount, \$12,000.

Jackson Dawson Fund. Established 1925, by the Horticultural Club of Boston, the interest to be used for prizes, lectures, and medals, or to commend and encourage the science and practice of hybridization and propagation of hardy wood plants. Present amount, \$3,227.

Theodore Lyman Fund, No. 2. Established 1850, the income to be appropriated for the encouragement of the growth of fruits, or vegetables, or plants, or of all three, by the distribution of prizes, or premiums, or in the publication of useful or valuable works on the general subject of horticulture; or if it shall not be thought advisable so to employ the whole of the net income of the fund, then to appropriate a part of it in some uniform and specific way for the promotion of horticulture. Present amount, \$10,000.

John Lewis Russell Fund. Established 1889, the interest to be paid annually to some competent person who shall deliver a lecture on the latest discoveries of the connection of the fungi with horticulture. Present amount, \$1,000.

George Robert White Medal of Honor Fund. Established 1909, the income to be devoted annually for the specific purpose of providing a substantial gold medal to be awarded by the executive management of the Society to the man or woman, commercial firm or institution, in the United States or of some other country, that has done the most in recent years to advance the interest in horticulture in its broadest sense. Present amount, \$10,000.

There are a number of other funds for medals, prizes, etc., to encourage the introduction of new plants, fruits and flowers.

Michigan State College. East Lansing, Mich.

Nursery Disease Investigation. Established 1927, at The Botany Experiment Station of the College, by Ilgenfritz and Greening Nursery Co., for investigation of storage diseases of peach trees. Original amount, \$400.

FUNDS AVAILABLE IN THE UNITED STATES FOR THE ENCOURAGEMENT OF RESEARCH
IN APPLIED PLANT SCIENCES (Cont'd)

Missouri Botanical Garden. St. Louis, Mo.

In 1909, the Estate of Henry Shaw established a fund for research and instruction and the Rufus J. Lackland Fellowships. Annually available, \$25,000.

New York State College of Forestry. Syracuse, N. Y.

A sum of \$6,000 is annually available for miscellaneous research in the college.

Purdue University. Lafayette, Ind. Agricultural Experiment Station.

Corn Borer and Codling Moth Fund. Established 1927, for the control and eradication of European corn borer and Japanese beetle and other destructive insect pests and plant diseases. Annually available, \$30,000.

Potash Research Fund. Established 1925, by the N. V. Potash Export My, of Amsterdam, Holland, to establish a center for the field and laboratory study of potash deficiency problems on various crops. Such work will include any part of the United States as the detailed plans from time to time might be agreed upon to cover. Annually available, \$13,000.

Tropical Plant Research Foundation. 1350 B. Street, S. W., Washington, D. C.

Tropical Plant Research Foundation. Established 1924, to promote research for the advancement of knowledge of the plants and crops of the tropics; to conduct investigations in plant pathology, entomology, plant breeding, botany and forestry, horticulture and agronomy, and to publish the results thereof; and to establish and maintain such temporary or permanent stations and laboratories as may be necessary for the accomplishment of these objects. Supported by funds contributed by organizations and individuals interested in its several research projects. Amount available 1927-28, \$115,000.

Yale University, New Haven, Conn.

Plant Pathology Research. Established 1926, for study in decay in trees. Annual grant, \$5,600.

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PUBLICATIONS WANTED

The library of the Division of Bee Culture Investigations, Bureau of Entomology, U. S. Department of Agriculture, desires to obtain the following publications:

U. S. Department of Agriculture, Bureau of Chemistry, Bulletin 110. Chemical analysis and composition of American honeys. By C. A. Browne. Including a microscopical study of honey pollen. By W. J. Young. 1908.

U. S. Department of Agriculture, Division of Entomology, Bulletin 13, new series. Recent laws against injurious insects in North America, together with the laws relative to foul-brood. Compiled by L. O. Howard. 1898.

DUPLICATES AVAILABLE FOR EXCHANGE

The following duplicates are available in the Library of the U. S. Department of Agriculture. Prices will be furnished on request.

Annales de chimieanalytique, vol. 12-20, 1907-1915. Bound.

Association of official agricultural chemists, vol. 6, no. 1-4. Unbound.

British food journal, vol. 9-17, 1907-1915.

Chemiker-zeitung, vol. 31-39, 1907-1915.

Chemisch-technisches repertorium, vol. 31-38, 1907-1914.

Revue internationale des falsifications et d'analyse des matières alimentaires, vol. 20-21, 1907-1908.

Zeitschrift für analytische chemie, vol. 46-54, 1907-1915.

American national livestock association, Proceedings, [9th, 1906]; 10th, 1907; 11th, 1908; 13th, 1910; 14th, 1911; 15th, 1912; 16th, 1913; 17th, 1914; 18th, 1915; 19th, 1916; 23d, 1920; 26th, 1923; 27th, 1924; 28th, 1925; 29th, 1926.

Engineering news, vol. 39-40, Jan.-Dec. 1898.

Good roads yearbook, 1914.

Interstate association of dairy and milk inspectors, Annual reports, 4th, 1915; 5th, 1916; 8th, 1919; 9th, 1920; 10th, 1921; 11th, 1922; 12th, 1923; 13th, 1924; 14th, 1925; 16th, 1927; 17th, 1928.

Kansas academy of sciences, Transactions, vol. 13, 15-16, 27, 30, 1891-92, 1895-96, 1897-98, 1914, 1919-1921.

National livestock association, Reports, 5th, 1901; 6th, 1903; 8th, 1905.

National wholesale druggists association, Proceedings, 1910, 1923; 1924.

U. S. live stock sanitary association, Proceedings, 13th, 1909; 14th, 1910; 15th, 1911; 16th, 1912; 17th, 1913; 18th, 1915; 20th, 1916; 26th, 1922; 27th, 1923; 28th, 1924; 30th, 1926.

MISCELLANY

The Proceedings of the 42d Annual Convention of the Association of Land Grant Colleges and Universities, held at Washington, D.C., Nov. 20-22, 1928, have recently been issued. Among the articles of particular interest to librarians are the presidential address of Dr. J. L. Hills on "The Builders of the Association" and the Report of the Bibliographer, Dr. A. C. True, which was entitled "Scientific and Technical Societies Dealing with Agriculture and Related Subjects." The latter includes brief accounts of the origin, organization, and work of 29 of the more important of these societies, the list of which follows: Society for the Promotion of Agricultural Science; American Ornithologists' Union; Association of Official Agricultural Chemists; American Association of Economic Entomologists; Association of Dairy, Food and Drug Officials of the United States; United States Livestock Sanitary Association; Society of American Bacteriologists; Society of American Foresters; American Society for Horticultural Science; American Genetic Association; American Dairy Science Association; American Society of Agricultural Engineers; American Society of Agronomy; Poultry Science Association; Vegetable Growers' Association of America; The American Society of Animal Production; American Phytopathological Society; American Home Economics Association; Association of Official Seed Analysts of North America; Association of Feed Control Association Officials of the United States; American Farm Economic Association; American Association for the Advancement of Agricultural Teaching; International Association of Dairy and Milk Inspectors; Potato Association of America; American Association of Agricultural College Editors; American Country Life Association; American Society of Mammalogists; American Soil Survey Association; American Society of Plant Physiologists. The report of Doctor True is memorable as his last contribution to the Association with which he has been connected since its organization. Doctor True died April 23, 1929.

The new appropriation for the Bureau of Home Economics includes provision for the revision of the well-known Bulletin 28 of the Office of Experiment Stations, originally issued in 1896 and entitled "Chemical Composition of American Food Materials," by Dr. W. O. Atwater. Despite the many advances in scientific methods in the present century, this compilation has remained a most popular source of information in its field. It is stated that no fewer than 81,745 copies have been sold in addition to an extensive free distribution.

"Libraries and Rural Adult Education," an address delivered by John Dayton Willard, Research Associate for the American Association for Adult Education, before the League of Library Commissions in Chicago, in December 1928, is printed in the Michigan Library Bulletin, April, 1929.

"Library Extension News," no. 2, for May, 1929, includes the full report of the Rural Library Extension Conference held in Chicago, March 26.

MISCELLANY (Cont'd)

In the Yearbook of the Massachusetts Horticultural Society for 1928, on pages 47 to 60, will be found a delightful article on "The Lure of Gardening as Expressed by Its Literature," by Miss Ethelyn M. Tucker, Librarian of the Arnold Arboretum, which was given as a lecture before the Massachusetts Horticultural Society. The literature described is found in two important libraries in Boston, "each preeminent in its line, the Library of the Massachusetts Horticultural Society, 'believed to be the oldest, most complete and best organized strictly horticultural library in the world,' and the Arnold Arboretum Library, unique in its field, the largest library in the world devoted to woody plants. These two libraries may be considered as sister libraries, working together for the accumulation of valuable material. While many of the books in one library are duplicated in the other, the guiding principal is that the Massachusetts Horticultural Society shall acquire all books on gardening (horticulture), and the Arnold Arboretum all books on dendrology. The libraries thus complement one another and make for a more complete collection along two distinct lines than would otherwise have been possible."

The library of the Bureau of Public Roads, U. S. Department of Agriculture, has issued a mimeographed list of publishers and prices of magazines most frequently appearing in the mimeographed list "Highways and Agricultural Engineering - Current Literature."

The first editorial pages of the Experiment Station Record for June 1929, vol. 60, no. 8, contain an interesting biographical account of the late Dr. Thomas Burr Osborne who had been connected with the Connecticut State Station since 1886. The second editorial refers to the recent book entitled "Some Pennsylvania Pioneers in Agricultural Science." In conclusion the editorial points out the value of such biographical writings as follows: "The potential importance of biographical writings of this sort as an aid in the upbuilding of agricultural education and research is perhaps somewhat greater than is always realized... As the successive generations rise and pass away, we need to know more of the pioneers and later leaders, the conditions under which they labored, and the contributions to progress which they made. At nearly all of the agricultural colleges and experiment stations there is still opportunity for service by making permanently available information along these lines, and this opportunity may be profitably availed of in increasing measure before it becomes too late."

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SELECTED LIST OF MIMEOGRAPHED PUBLICATIONS
of the U. S. Department of Agriculture
issued during April and May, 1929, exclusive of current issues of serials.

Bureau of Agricultural Economics

Agricultural relief; bills introduced in the 70th Congress, 2d session.
4p. (Issued by Library)

Beginnings of cooperative livestock marketing; a preliminary report by
Chastina Gardner. 11 p. (Issued by Division of cooperative marketing)

Cotton research program of the United States Department of Agriculture
as an aid to cotton cooperatives. By Ward W. Fetrow. 11 p. (Issued
by Division of cotton marketing)

Do we need more farm land? By O. E. Baker. 32 p. (Issued by Division of
land economics)

The extent of various methods of harvesting corn in Ohio, Michigan, and
Indiana in 1927. By George W. Collier. A preliminary report.
(Issued by Division of farm management and costs)

Factors determining the success of cooperative marketing associations.
By B. B. Derrick. 8 p. (Issued by Division of cooperative marketing)

Five talks to retail meat dealers. 12 p. (Issued by Division of live-
stock, meats and wool)

Foreign trade of the United States, 1790-1928; corn and corn products.
By Caroline G. Gries. (Issued by Division of statistical and histor-
ical research)

Imports of principal agricultural products, by countries, 1925-1928.
18 p. (Report F S 39) (Issued by Division of statistical and his-
torical research)

Inspection and grading of live poultry for carlot shipment and for the
feeding station. By T. H. Heitz. 6 p. (Issued by Division of dairy
and poultry products)

List of rice grading apparatus and firms from whom same can be purchased.
4 p.

Marketing Arizona cantaloupes. Summary of 1928 season. By Bryce Morris.
25 p. (Issued by Division of fruits and vegetables)

Marketing California asparagus. Summary, season 1928. By C. J. Hansen,
and O. W. Holmes. 24 p. (Issued by Division of fruits and vegetables)

Marketing Colorado bartlett pears. Summary, 1928-1929 season. By J. D.
Hamilton. 12 p. (Issued by Division of fruits and vegetables.)

SELECTED LIST OF MIMEOGRAPHED PUBLICATIONS (Cont'd)

Bureau of Agricultural Economics (Cont'd)

Marketing Colorado cantaloupes. Summary of 1928 season. By J. M. Foote. 26 p. (Issued by Division of fruits and vegetables)

Marketing Colorado peaches. Summary of 1928 season. By J. D. Hamilton. 17 p. (Issued by Division of fruits and vegetables)

Marketing Eastern Shore potatoes (Delaware, Maryland and Virginia). Summary of 1928 season. By John W. Coleman. 31 p. (Issued by Division of fruits and vegetables)

Marketing Eastern Shore strawberries (Delaware, Maryland and Virginia). Summary of 1928 season. By John W. Coleman. 15 p. (Issued by Division of fruits and vegetables)

Marketing east Texas tomatoes. Summary of 1928 season. By W. D. Googe. 15 p. (Issued by Division of fruits and vegetables)

Marketing Florida tomatoes. Summary of 1928 season. By F. H. Scruggs. 20 p. (Issued by Division of fruits and vegetables)

Marketing Georgia peaches. Summary of 1928 season. By R. H. Shoemaker. 65 p. (Issued by Division of fruits and vegetables)

Marketing Illinois peaches. Summary of 1928 season. By W. H. Hall. 15 p. (Issued by Division of fruits and vegetables)

Marketing North Carolina peaches. Summary of 1928 season. 33 p. (Issued by Division of fruits and vegetables)

Marketing North Carolina potatoes. Summary of 1928 season. By R. E. Corbin. 19 p. (Issued by Division of fruits and vegetables)

Marketing southeastern watermelons. Summary of 1928 season. By S. W. Russell. 53 p. (Issued by Division of fruits and vegetables)

Marketing southern Alabama potatoes. Summary of 1928 season. By H. E. Rutland. 16 p. (Issued by Division of fruits and vegetables)

Marketing strawberries from the Ozark section of Missouri and Arkansas. Summary of 1928 season. By Wendell Calhoun. (Issued by Division of fruits and vegetables)

Marketing Texas Bermuda onions. Summary of 1928 season. By G. D. Clark and John W. Coleman. 34 p. (Issued by Division of fruits and vegetables)

Methods of forecasting New England potato yields. A study of the relationship of yields to reported condition and weather data. A summary of studies made in New England. By Frederick V. Waugh and others. 19 p. (Issued by Division of crop and livestock estimates)

SELECTED LIST OF MIMEOGRAPHED PUBLICATIONS (Cont'd)

Bureau of Agricultural Economics (Cont'd)

Moisture in wheat. Comp. by Louis Phillips and E. G. Boerner. Rev. 32 p. (Issued by Division of grain investigations)

The perquisites and wages of hired farm hands. A preliminary report. By Josiah C. Folsom. 28 p. (Issued by Division of land economics)

Production and carry-over of fruit and vegetable containers for the year 1928. 25 p. (Issued by Division of fruits and vegetables)

Relations of farmers' planting intentions to the agricultural outlook for 1929. 12 p. (Issued by Crop reporting board)

Significance of recent changes in the cooperative marketing of cotton. By James S. Hathcock. 11 p. (Issued by Division of Cooperative marketing)

Some problems in the organization of the local cooperative creamery. By Tom G. Stitts. 7 p. (Issued by Division of cooperative marketing)

United States agricultural trade with the Philippines. (Issued by Division of statistical and historical research)

U. S. standards aid broom manufacturers. By G. B. Alguire. 5 p. (Issued by Division of hay, feed, and seed)

Bureau of Chemistry and Soils

The influence of manganese on the agriculture of South Florida. By J. J. Skinner. 7 p. (Issued by Division of soil fertility)

Bureau of Dairy Industry

Address list of national and international dairy associations. 2 p. (Issued by Library)

Bureau of Entomology

Oriental peach moth conference. 22 p.

Publications of the Bureau of entomology available for free distribution. Rev. to May 15, 1929. 8 p. (E-24)

Extension Service

Circular letters that bring results. By H. W. Hochbaum, 17 p. (Issued by Office of cooperative extension work)

Current problems in livestock marketing. By R. C. Ashby. 4 p. (Issued by Office of cooperative extension work)

SELECTED LIST OF MIMEOGRAPHED PUBLICATIONS (Cont'd)

Extension Service (Cont'd)

Effective circular letters; how to prepare them. By H. W. Gilbertson. 18 p. (Issued by Office of cooperative extension work)

The effectiveness of home-economics extension work in reaching farm women. 14 p. (Issued by Office of cooperative extension work)

Extension service circulars of the U. S. Department of Agriculture, nos. 1 to 100, issued from March, 1926, to April, 1929. 21 p. Extension service circular 103. (Issued by Office of cooperative extension work)

The house we build. By James S. Taylor. 7 p. Extension service circular 99. (Issued by Office of cooperative extension work)

How to determine and meet the desires and needs of farm people through a home demonstration program. By Myrtle Weldon. 4 p. (Issued by Office of cooperative extension work)

Lantern slides on film; the latest method of visual projection. 4 p. (Issued by Office of cooperative extension work)

List of nutrition prints and slides. Series A-1. (Office of cooperative extension work)

Publicity for the establishment of home demonstration agents. By Essie M. Heyle. 8 p. (Issued by Office of cooperative extension work)

Recent developments in livestock marketing. By Sam H. Thompson. 12 p. (Issued by Office of cooperative extension work)

Some recent developments in the marketing of dairy products. By R. K. Froker. 5 p. (Issued by Office of cooperative extension work)

Forest Service

Progress report of the forest taxation inquiry. 39 p.

Unaka national forest; Virginia, Tennessee, North Carolina. (Issued by Eastern district)

Library

The library of the United States Department of Agriculture. A brief description of its resources, organization, and work. Comp. by Claribel R. Barnett. 28 p.

The United States Department of Agriculture and its relations to agricultural libraries. By Claribel R. Barnett. 22 p.

SELECTED LIST OF MIMEOGRAPHED PUBLICATIONS (Cont'd)

Bureau of Plant Industry

Avocado culture in California. By C. F. Kinman. 9 p. (Issued by Office of horticultural crops and diseases)

Broadleaf evergreens adapted to the Piedmont region of Virginia. Prepared by Furman Lloyd Mulford. 3 p. (Issued by Office of horticultural crops and diseases)

Brussels sprouts. By Ross C. Thompson. 3 p. (Issued by Office of horticultural crops and diseases)

Chemical weed killers. By M. W. Talbot. 6 p. (Issued by Office of botany)

Gladiolus diseases. By Lucia McCulloch. 5 p. (Issued by Office of horticultural crops and diseases)

Hotbeds and coldframes. By W. R. Beattie. 8 p. (Issued by Office of horticultural crops and diseases.)

Plants especially available for home ground planting in region no. 26. Prepared by Furman Lloyd Mulford. 7 p. (Issued by Office of horticultural crops and diseases.)

Progress report on alfalfa investigations conducted at the United States forage crop field station, West Point, Mississippi, 1925-1928, inclusive. By T. F. Akers and H. L. Westover. 7 p. (Issued by Office of forage crops)

Reed canary grass (*Phalaris arundinacea* Linn.). By H. A. Schoth. 3 p. (Issued by Office of forage crops)

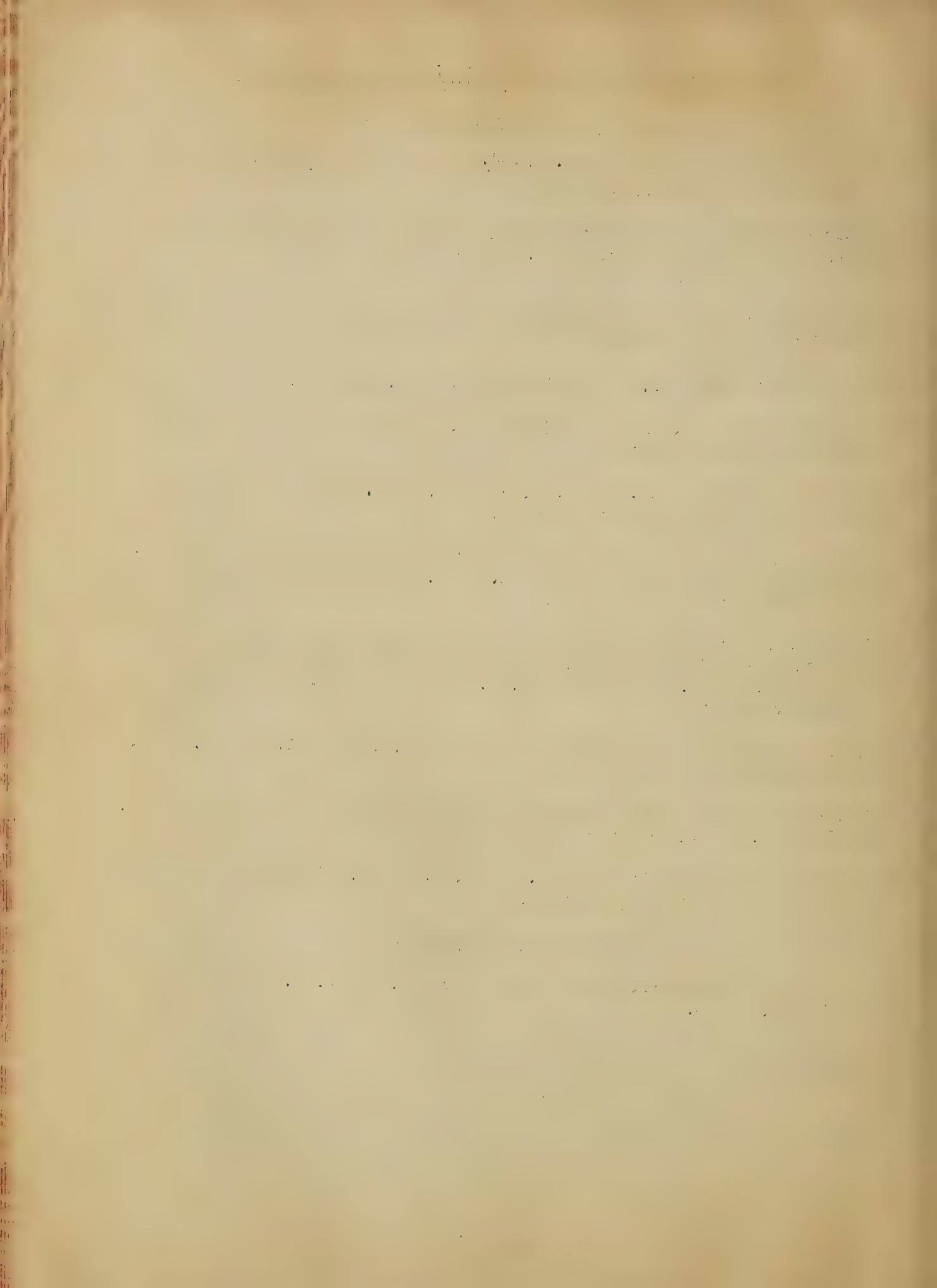
The relation of environmental factors to quality in wheat. By Clyde E. Leighty. 11 p. (Issued by Office of cereal crops and diseases)

Transplanting large fruit trees. By H. P. Gould. 6 p. (Issued by Office of horticultural crops and diseases)

Bureau of Public Roads

Drying grain by forced draft with heated air. By W. M. Hurst and R. C. Miller. 12 p.

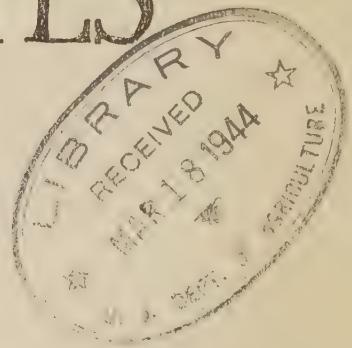
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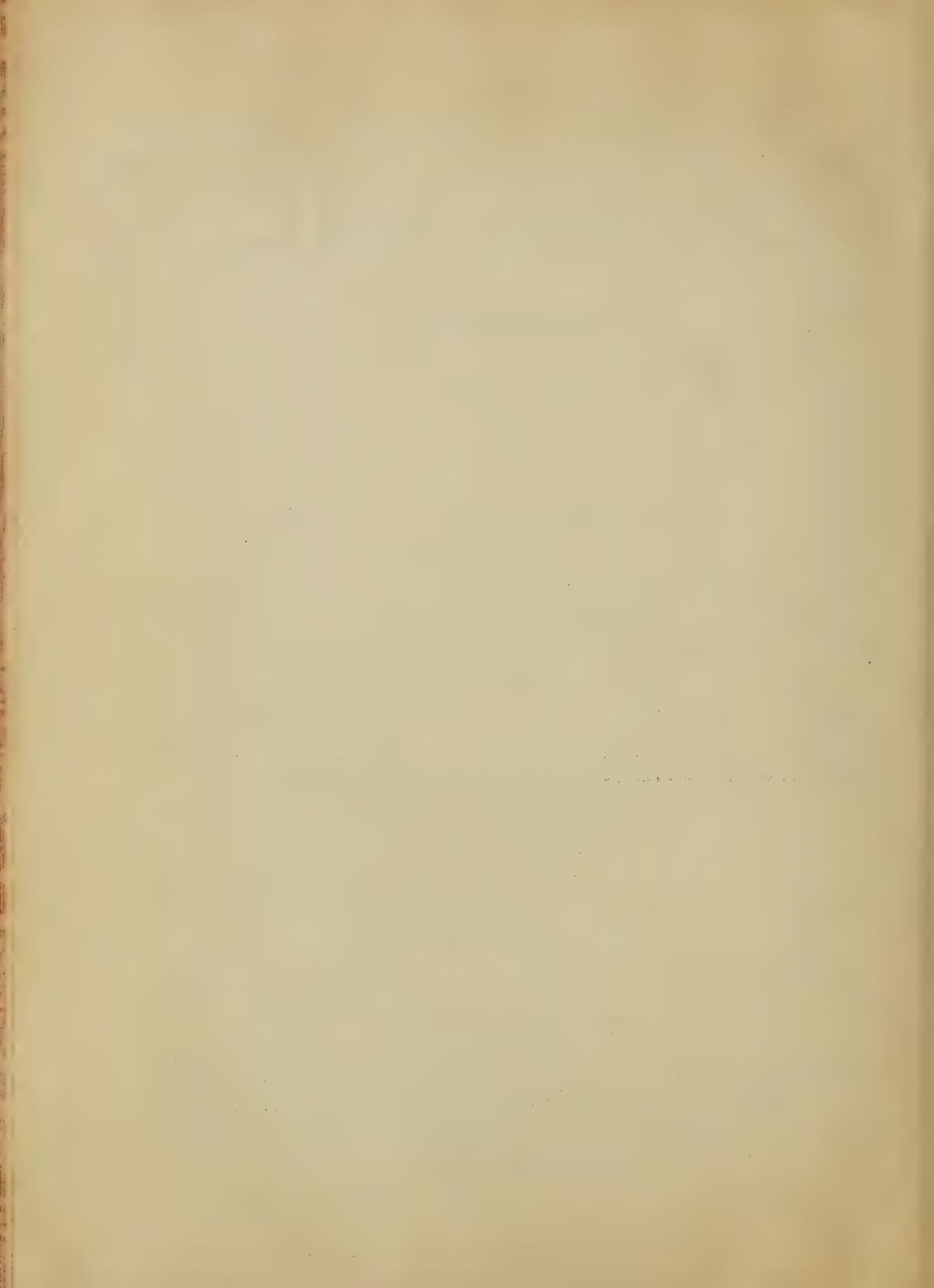
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AGRICULTURAL LIBRARY NOTES

Vol. 4.

July-Sept., 1929

No. 7-9.

MISCELLANY

In a stimulating article on "Science as a Source of Ideas" which appeared in the Scientific Monthly for September, 1929, the author, Dr. M. Luckiesh, made the following observation on the value of the "library habit". "For years I have seen technical researches and other activities being pursued by men who did not have a grasp of the fundamental laws and data underlying the work. Furthermore, there is an art of research which is best developed in those who have a clear conception of science and are guided by its spirit. Possibly science could be made to yield more valuable ideas if these technical men would develop the library habit. To one in the scientific field in which the reading or skimming of scientific journals has necessarily become a habit, the prevalent lack of acquaintance with the scientific work of the world on the part of most technical men engaged in researches and allied activities is shocking."

Shortly after the death in 1927 of Miss Caroline L. Hunt of the Bureau of Home Economics, U. S. Department of Agriculture, a group of her friends, brought together by the common desire to keep her memory alive among those who admire the social and educational ideals to which she was devoted, decided to publish a memorial edition of Miss Hunt's essay entitled "Revaluations". This essay which had been much enjoyed by the few who knew it, first appeared in the Proceedings of the Lake Placid Conference on Home Economics, 1899-1901. In 1921 Miss Hunt reprinted the essay and dedicated it to Mrs. Annie Dewey. The memorial edition which has just been issued, is being distributed through the American Home Economics Association, 101 East 20th Street, Baltimore, Md., at \$1.00 per copy. In addition to the essay it contains a brief account of Miss Hunt's life.

Agricultural librarians wishing a brief authoritative review of the history of agricultural education in this country in the past four or five decades will be particularly interested in the editorial in the Experiment Station Record for July, 1929, vol. 61, no. 1, which is devoted to an account of the life and services of the late Dr. Alfred C. True, formerly Chief of the Office of Experiment Stations and later of the States Relations Service. During his connection with the U. S. Department of Agriculture he was an active and influential participant in the upbuilding of agricultural education and research in this country. The editorial closes with the following tribute to his services: "Within the span of his working years a great national system arose and exceptional progress was achieved in all these directions. Many leaders, of course, have played their part in these developments, and the outcome has been the resultant of many factors, yet it may be conservatively said that by no single individual has the cause of agricultural education and research been better served or more permanently benefited than by the man who, in this critical period, most immediately represented the Nation in its dealings with the States along these lines.

MISCELLANY (CONT'D)

Beginning with July, 1929, the lists of new publications of the U. S. Department of Agriculture which, since October, 1923, have appeared in card form, will be published in leaflet form with the title "Monthly List of Publications". This leaflet is similar in makeup to the "Monthly List of Publications" which was discontinued in October, 1923.

"Relative Costs of Extension Methods which influence Changes in Farm and Home Practices", by H. J. Baker, Director of Extension, New Jersey, and M. C. Wilson, In Charge of Extension Studies, Office of Cooperative Extension Work, U. S. Department of Agriculture, is the title of Technical Bulletin No. 125 recently issued by the U. S. Department of Agriculture. It is the third in a series dealing with the means and agencies which influence farmers and farm women to change their practices. It is interesting to note from the summary that "considering types of methods, the printed word gives largest returns per unit of cost."

An inquiry has been received from one of the agricultural college libraries as to how the U. S. Department of Agriculture Library has solved the puzzle of arranging for binding the International Review of Agricultural Economics and its various successors. The U. S. Department of Agriculture Library does not feel sure that it has found the correct answer but it will be glad to furnish its solution, on request, to any library which may be interested.

Libraries which maintain a file of the publications of the Kansas State Board of Agriculture may be interested to know that Bulletin, vol. 1, no. 1 was the only one of the series issued and that Quarterly Report, vol. 44, no. 174, was never printed. The secretary of the Board says that it is not planned to continue the bulletin series and suggests that number 1 be bound in the series of Quarterly Reports in place of no. 174!!!

The Agricultural Libraries Section of the A. L. A. is honored in having the proceedings of the Washington meeting reviewed in the editorial pages of the Experiment Station Record for August 1929, vol. 61, no. 2. The editorial closes with the following encouraging comment: "Another matter of considerable general interest was a suggestion for a future meeting of the section at the time of the annual convention of the Association of Land-Grant Colleges and Universities. No definite action was taken on this proposal, and some little time may be required to secure a satisfactory arrangement of program and a working out of other details. Since the section and certain groups of the association have numerous interests in common, it would seem that some useful contacts might be established in this way, and that an occasional meeting of the sort, actively supported by the appropriate sections, would deserve encouragement."

BIBLIOGRAPHIES

The following typewritten bibliographies have recently been compiled in the Library of the Bureau of Agricultural Economics, U. S. Department of Agriculture. They may be borrowed for copying.

Commercial canning of fruits and vegetables, 1924-June, 1929; a selected list of references. Comp. by Esther M. Colvin, under the direction of Mary G. Lacy, Librarian. 13 p.

Figs; selected references on the culture of figs and the economics of the industry. Comp. by Louise O. Bercaw and Mamie I. Herb. 5 p.

Olives and olive oil; selected references on the culture of olives and the economic aspects of the industry. Comp. by M. I. Herb and Louise O. Bercaw. 8 p.

A short list of references on the marketing of grain. Comp. by Katharine Jacobs. 4 p.

The following typewritten bibliographies on agricultural subjects were prepared during the past year by students of the Wisconsin Library School. Copies of the bibliographies may be borrowed by any person who is interested in examining them or in copying them. Application should be made to Mrs. Mary M. Kirsch, Legislative Reference Library, Madison, under whose direction the bibliographies were prepared.

Commercial canning for the last half decade. Comp. by Miss Crist.

Dairying in the south since 1920. Comp. by Miss Gay.

Road building problems. Comp. by Miss Leamer.

Crop and Market Reports: their history and present status in the United States. Comp. by Miss McDonald.

Migratory farm labor. Comp. by Miss Schindler.

Legal phases of agricultural marketing and agricultural cooperation. Comp. by Miss Zwinggi.

The Institute Colonial de Marseille has recently issued a circular giving information regarding the price of the subscription for its "Catalogue en Fiches de la Bibliographie de la Chimie et de l'Industrie des Matières Grasses". The cards are of standard size.

Arguments in favor of "A Unified System of Presenting Bibliographies" are contained in an article by J. L. St. John in "Science" for August 30, 1929, p. 217.

PERSONAL ITEMS

Mr. James Goodwin Hodgson, who since 1925 has been directing the reorganization of the Library of the International Institute of Agriculture, at Rome, Italy, under a grant of funds from the International Education Board, completed his period of service this autumn and has returned to the United States. He is at present connected with the H. W. Wilson Co., New York City.

When Mr. Hodgson went to Rome in January, 1925, he found a staff without a single trained member. He leaves it with all the five highest ranking members with formal library training, representing the schools at Albany, N. Y., Illinois, Paris, Leipzig, Munich, Michigan, Florence, and London. Three of the staff were trained under grants from the International Education Board.

During the last four years and a half, all of the internal machinery of the library has been thoroughly gone over and reorganized; rules for the compilation of the catalogue have been perfected and standardized; and the service of the library to the reader greatly expanded. Previous to 1925, the library was only for the use of the Institute staff. But as one of the largest and most important collections on agriculture in the world, Mr. Hodgson felt that its field was too restricted, and he had it thrown open to the use of scholars and students in all parts of the world.

Mr. Hodgson will be succeeded as head of the library by Sigmund von Frauendorfer, Dr. Agr., Hohenheim; M. A. (Library Science), University of Illinois.

Miss Lydia Friedemann, Librarian of the Oklahoma Agricultural Experiment Station, spent about six weeks during the summer in the U. S. Department of Agriculture Library to gain experience. At the same time she took the summer course in library work at George Washington University.

Miss Louise Hart has been appointed Librarian of the Ohio Agricultural Experiment Station, succeeding Mrs. Grace G. Gerdel.

Mr. Sigmund von Frauendorfer, Acting Librarian of the International Institute of Agriculture, read a paper before the First World Congress of Libraries and Bibliography at Rome in June, 1929. It was entitled "Problems of International Bibliography from the Viewpoint of a Special Library" and dealt particularly with the bibliography of agriculture. The paper is in mimeographed form.

Miss Gertrude M. Suess, Circulation Librarian, Oregon State Agricultural College, has an article in the Library Journal for September 15, 1929, entitled "Keeping up with Campus Events".

Miss Isabel L. Towner, Assistant Librarian of the Smithsonian Institution has resigned to accept the position of editor of the Educational Index issued by the H. W. Wilson Company. Her successor in the Smithsonian Institution Library will be Miss Leila Forbes, who has recently been in charge of the Library of the Division of Agricultural Engineering, U. S. Bureau of Public Roads.

EDUCATIONAL ACTIVITIES OF THE U. S. DEPARTMENT OF AGRICULTURE

By M. S. Eisenhower, Director of Information,
U. S. Department of Agriculture.

In a sense all the work of the United States Department of Agricultural is educational. Scientific research is conducted to lay a foundation for education in the production and use of agricultural commodities. Educational rather than punitive methods predominate in the department's law-enforcement activities. Much more space than is available here would be needed to trace all the ramifications of the department's educational services. It must suffice to outline the principal channels through which information is conveyed to the farmer and to the general public. These include the department's cooperative extension service, its publications, motion pictures and exhibits, its press and radio service, its weather forecasts, its crop and market reports and outlook reports, its periodicals, its soil surveys, its regulatory work, its correspondence with individuals, and lectures by members of the department.

Extension work may be described first, because it is essentially teaching. The department's extension service carries the results of research work done in the department to the States, where the material is correlated with research data obtained by State experiment stations and State agricultural colleges. Extension specialists carry the combined Federal and State research result into the counties, where it is adapted to local farming conditions and communicated direct to farm men and women. Through its contacts with State agricultural colleges and local county extension organizations, the extension service of the United States Department of Agriculture reaches all parts of the country, in its efforts to educate farmers in better methods of farming and homemaking. Extension workers do not confine their efforts to the inculcation of better practices on the farm and in the farm home. They strive also to encourage independent thinking among farm people on community problems.

Under the Smith-Lever Act of May 8, 1914, a cooperative extension service with a nation-wide organization was set up for the promotion of rural education. It was said in Congress at the time that knowledge available in the United States Department of Agriculture and in the State agricultural colleges and experiment stations was twenty-five years in advance of the practices commonly followed by farm people. It was held that the existing agencies for the dissemination of this knowledge were inadequate. Accordingly, provision was made for a corps of county agricultural agents, home-demonstration agents, and boys' and girls' club agents, to conduct or supervise practical demonstrations of the latest and most successful farm and home practices. Authority was given in the law to place agricultural agents in all agricultural counties where they were needed and where the work could be financed.

EDUCATIONAL ACTIVITIES OF THE U. S. DEPARTMENT OF AGRICULTURE (CONT'D)

Educational work conducted through this extension system does not conflict with agricultural teaching in schools and colleges. Agriculture and home economics are taught in vocational schools to those who have time and opportunity to attend regular classes. Special training is provided in the colleges of agriculture for a limited number of persons who intend to become teachers, experimenters, county agents, and farmers. Necessarily, however, the instruction thus provided can reach only a small percentage of people. The extension service reaches persons that usually can not be reached in other ways. It takes the college to the farm, so to speak, and reaches both young and old. It makes large use of the demonstration method whereby the successful practices of a farmer, a farm woman, boy, or girl are brought to the notice of others in the community. Tours of farm people to series of farms where similar practices are conducted under similar conditions are an effective and commonly used extension method. Other educational devices employed by the extension service include publications, window displays, motion pictures, exhibits, posters, circular letters, and farm visits. Extension specialists in the State agricultural colleges help extension agents in studying different problems. Volunteer local leaders in agriculture assist the extension workers.

There are county agricultural agents in about 2,300 of the 3,000 agricultural counties of the United States. These county agents do considerable field work as well as office work. They bring together groups of farmers having common interests and help to develop local leaders in rural education. In a well-organized county from 60 to 80 local leaders will often be found assisting the county agent in conducting demonstrations, and it is not uncommon for a farm demonstration originally given by local leaders to be repeated on numerous other farms. Home-demonstration work, though not yet as well developed as farm-demonstration work, has made a remarkable growth, by organization and methods similar to those used in encouraging better farm practices.

Vitally important in the extension scheme is the boys' and girls' 4-H club work. The enrolment is 46,671 boys' and girls' clubs in 1928 and 270,534 boys and 395,406 girls. Work assigned to these clubs during the year included more than 882,795 demonstrations in various phases of agriculture and home economics. The assigned work was completed by 175,069 boys and 272,510 girls. In about 200 counties club agents devoted their full time to the 4-H club work. Agricultural and home-demonstration agents supervise the work in hundreds of other counties. The educational value of work done by the 4-H clubs can not easily be overestimated. It reaches the young people of the farm when their capacity for learning is perhaps at its height and when youthful enthusiasm and receptivity give the information conveyed possibly its maximum value.

EDUCATIONAL ACTIVITIES OF THE U. S. DEPARTMENT OF AGRICULTURE (CONT'D)

Results in education can not be adequately expressed in figures, yet it is nevertheless worth noting that the extension service employs in its field staff more than 5,500 highly trained workers, including 74 administrative officers, 406 supervisors, about 1,000 extension specialists, and a permanent force in the counties, comprising 2,582 persons in county-agent work, 1,238 home demonstration workers, and 193 in boys' and girls' club work. Included in the personnel are 185 negro men and 132 negro women engaged in extension work among their own race. Extension work in 1928 required an appropriation of \$21,000,000, of which 36 per cent was appropriated by the Federal Government and 64 per cent by State and local governments. Congress indicated its recognition of the value of extension work by passing the Capper-Ketcham Act in 1928. This measure authorized an increase in Federal funds for 1929 of \$980,000, and in 1930 and thereafter of \$1,480,000.

Cooperative extension work has vitalized the State colleges of agriculture and the United States Department of Agriculture as agents of practical helpfulness for farm people. It has materially improved farm practice and home life on the farm, and has promoted a rapid and general development of rural organization. It has developed the self-conducted demonstration by the people as an efficient method of teaching. It has inculcated in the country people an attitude towards their work that greatly assists rural progress. It has helped the farmers to adjust themselves to the requirements of changing economic conditions. This function of the extension service has been particularly important since the World War, because it has been necessary not merely to increase the efficiency of production but also to effect drastic shifts in crop and livestock enterprises.

Systematic agricultural education in the United States was of course well established long before the passage of the Smith-Lever Act in 1914. Congress established the United States Department of Agriculture in 1862 and in the same year provided an endowment for agricultural colleges. Thus was laid the foundation for a comprehensive and definite system of agricultural education. Under the land-grant act of 1862, large tracts of land were donated to the States, from the sale of which permanent funds were established for the endowment of agricultural colleges. Other Federal legislation appropriates annually to each of the States definite sums of money to promote investigation and scientific research and to extend the results of such work to farmers and farm homemakers. The Department of Agriculture has important supervisory functions to fulfill in connection with the administration of these funds. It has thus been enabled to exercise a far-reaching influence on agricultural-education policies.

Educational objects are fundamental in the work of the department itself. The act of 1862 directed the department "to acquire and to disseminate among the people of the United States

EDUCATIONAL ACTIVITIES OF THE U. S. DEPARTMENT OF AGRICULTURE (CONT'D)

information on subjects related to the improvement of agriculture." It was thus recognized that the dissemination is as important as the acquisition of knowledge. Indeed, it would be idle to conduct research without at the same time communicating the results. Research, from the beginning, has an educational object; it becomes an educational force immediately its findings are published. Presented technically, research educates the specialist or the educator. Presented popularly, it educates the practical man. All the bureaus of the United States Department of Agriculture are engaged to a greater or lesser degree in research. Among its 5,000 employees in Washington, the department assigns 2,000 definitely to research work, and many other members of the organization carry on research work in the field.

It is obviously impractical to establish a valid distinction between research and education. Research itself would be crippled without facilities for intercommunication among research workers. Without prompt publication of research results, investigations would involve wasteful duplication and would lack the stimulus that discovery in one field usually exercises upon inquiry in other fields. It is convenient for certain purposes, however, to discriminate between study and teaching. Study, or research, furnishes the material for teaching, and this material is disseminated by the United States Department of Agriculture through an extensive publication system, which, however, is not adequate to handle all the material that ought to be issued. Publications are distributed annually by the department to millions of farmers as well as to other groups. It is a mistake to suppose that the research and education work of the department is done for the sole benefit of the agricultural industry. Much of it is devoted to the promotion of the health, prosperity, and well-being of the general public. The educational work done in connection with the administration of the food and drugs act is a typical example. Indeed, the ultimate beneficiary of the department's work, and particularly of its research and educational work, is the entire community.

Publications issued by the department have incalculable educational value. In the fiscal year ended June 30, 1928, the department distributed free more than 33,000,000 bulletins, circulars, and other publications. It can not furnish free copies of all the publications desired, because its printing funds are limited. But the Superintendent of Documents sells millions of copies at prices barely covering the cost of printing. Senators and Congressmen distribute the department's publications widely. They also send out several hundred thousand copies of the department's yearbook, which contains the Secretary's annual report to the President and numerous agricultural articles and statistical tables. Through its publications the department's research material, its practical recommendations to farmers, and its regulatory announcements receive nation-wide distribution.

EDUCATIONAL ACTIVITIES OF THE U. S. DEPARTMENT OF AGRICULTURE (CONT'D)

These publications, though widely varying character, all have educational value. This is obvious in the case of bulletins and circulars prepared for the non-technical reader on subjects of practical interest. It is equally true that technical bulletins designed for specialists have an educational function. Technical workers are always glad to learn from one another, and they do so constantly through scientific publications. Published research material thus serves an educational purpose while at the same time advancing the objects of pure science. It is unquestionably one of the most important educational facilities the department possesses. Fundamental research done by the department is published in a department series of Technical Bulletins and also in the Journal of Agricultural Research. These publications, in which discoveries are chronicled and facts classified and interpreted, are distinctly educational, because they provide instruction for technicians and therefore indirectly for students.

The popular publications consist mainly of Farmers' Bulletins, Leaflets, and Circulars, through which progress in agricultural science is communicated to practical farmers and the general public. Some idea of the value attached to these publications by the farmers can be gained from the fact that in 1928 the distribution of Farmers' Bulletins totaled 3,152,367 copies, an increase of 1,214,013 copies over the distribution of Farmers' Bulletins the previous year. Much material, both technical and popular, is issued in mimeographed form. In 1928 mimeographed material issued totaled 51,000,000 pages.

Technical instruction for farmers holds the largest place in the popular publications. Publications about diet and household subjects generally are in strong demand. Besides promoting adult education, these publications are used by teachers as texts in school work. Through this use is limited for economic reasons and can not be widely encouraged, a great number of department publications are used as school texts.

Motion pictures made in the department strongly support the other educational methods employed. Films have been made cover 230 subjects of interest to farmers and to the general public. These films are mostly distributed through county extension agents, forest rangers, and field members of the department. Agricultural teachers, ministers, and other educational workers made frequent use of them. The department's motion pictures are used by women's clubs, garden clubs, breeders' associations, and business men's organizations. A film loan service is maintained, and in addition about 400,000 feet of department films are purchased outright each year. Probably 10,000,000 persons annually see one or more of the department's educational films. Considerable demand also exists for lantern slides to picture desirable

EDUCATIONAL ACTIVITIES OF THE U. S. DEPARTMENT OF AGRICULTURE (CONT'D)

farm practices in detail. It might be supposed that the vogue of the motion picture would tend to eliminate the lantern slide. Yet the demand for slides to reinforce and to illustrate educational talks increases steadily.

Another useful educational agency is the exhibit, sometimes termed the department's traveling school of agriculture. Elaborate exhibits prepared in the department are shown at fairs and expositions throughout the United States. Many of the most important fairs, such as the International Livestock Exposition, the American Royal Livestock Show, the National Dairy Show, and others make prominent use of exhibits furnished by the department. When equipped with lights, sound, motion, and other modern devices, the exhibit has remarkable power to attract attention and convey lessons. It has been estimated that the annual audience for department exhibits exceeds 5,000,000 persons.

Extensive publicity is obtained for the department's work through the press, which thus becomes an immensely valuable educational agency. In the fiscal year ended June 30, 1928, the department's press service issued 934 mimeographed releases, a weekly printed clip sheet, 33 special articles, 125 reviews of department bulletins, 37 statements by the Secretary, and numerous statements by department officials. This was all essentially informational material. It consisted mainly of spot news on crops and markets and reports of administrative and regulatory work and scientific research. Agricultural feature articles were furnished to the large press associations and to many farm publications and general magazines. Newspapers and magazines readily publish material issued by the department, because it is of manifest public interest and importance. Releases issued to the press, though usually brief, are as carefully prepared and checked as any other of the department's published material. As an agency for the immediate publication of important information, the press is invaluable. In many cases it obtains for the department's work a circulation vastly greater than could be obtained by any other means. Graphs and maps prepared in the Press Service and in other divisions of the department find an important outlet through the press. It should be noted also that numerous educational articles are contributed by members of the department to magazines.

Radio broadcasting holds an important place in the department's educational work. Market-news reports, which are educational because they include interpretations of supply-and-demand conditions, reach farmers daily through 111 broadcasting stations. These are the high-powered stations. More than a third of the 600 broadcasting stations in the United States send out daily weather forecasts and other weather information supplied by the United States Weather Bureau. News of weather and markets has been distributed by radio since the early days of radio communication.

EDUCATIONAL ACTIVITIES OF THE U.S. DEPARTMENT OF AGRICULTURE (Cont'd)

It is now supplemented by educational programs for farmers and home-makers. A good demonstration of the value of the radio service in emergency educational campaigns was furnished last year, when 46 broadcasting stations cooperated in transmitting a special series of 9 weekly releases on the control of the European corn borer.

The department's radio educational programs are put on the air through the National Broadcasting Company's chain of stations. Seventeen stations are linked for a network broadcast of 15 minutes at noon each weekday except Saturday. In addition, the Radio Service issues manuscript programs which are presented by 149 broadcasting stations scattered among 43 States, the District of Columbia, and Hawaii. These stations devote about 1,200 hours each month to sending out timely hints on farm and home operations, and to the broadcasting of radio agricultural short courses. Probably every radio listener in the United States is within the range of one or more stations handling radio releases issued by the United States Department of Agriculture. The broadcasting stations do not charge for the time consumed in sending out these releases. This broadcasting time, at commercial rates, would cost more than a million dollars a year. Radio does not supplant, but rather supplements other means of agricultural education. This is shown by an increasing demand from radio listeners for printed matter amplifying radio information.

Crop and market news issued through the department's leased wire service and through mimeographed reports and other publications has an educational as well as an immediate practical value. The department's crop and livestock reporting service issues regular reports on 30 field crops and 10 livestock commodities. These reports acquaint farmers with supply conditions in the agricultural markets and thus awaken them to the necessity of economic as well as technical knowledge in farming. It is then less difficult to interest farmers as a body in the possibility of effecting a better adjustment between production and consumption. The annual outlook reports issued by the department have this end in view. Familiarity with crop reports enables farmers to see the opportunity for increased income that results from a correct application of general economic information to the particular needs of their own farms. Hence the crop-reporting service of the department and its market-news service can be called educational in an entirely legitimate sense of that term. That the farmers' education in economics progresses steadily may be inferred from the increasing farmer demand for market news. The department's leased-wire service for the transmission of such news carries reports daily to the farmers of some 26 States, and more than 5,000,000 mimeographed market reports are issued annually on livestock alone. Market news has a doubly educative influence when, as is often the case, it enables the farmer to take advantage of

EDUCATIONAL ACTIVITIES OF THE U. S. DEPARTMENT OF AGRICULTURE (Cont'd)

favorable price changes. As he learns the cash value of market knowledge, the farmer reaches out for more, and in that way broadens his business education. Particularly valuable from an educational standpoint is the information brought to the farmer about agricultural and business conditions in other countries.

The following references, in connection with the department's educational work, may be of interest: Yearbook 1926, page 55, Press Service; Yearbook 1926, page 56, Radio World Crop and Market Information; Yearbook 1926, page 93, Extension Work; Yearbook 1926, page 100, Purnell Act; Yearbook 1926, page 118, Department Publications; Yearbook 1926, page 123, Agricultural Education, by F. A. Merrill; Yearbook 1927, page 59, Extension Work; Yearbook 1927, page 82, Office of Information; Yearbook 1927, page 83, Press Service; Yearbook 1927, page 84, Radio Service; Yearbook 1927, page 278, article by E. H. Shinn.

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HISTORY OF AGRICULTURAL EDUCATION IN THE UNITED STATES

"A History of Agricultural Education in the United States, 1785-1935", by the late Dr. Alfred Charles True, Specialist in States Relations Work, has recently been published by the U. S. Department of Agriculture as Miscellaneous Publication No. 36. This volume of 436 pages is in eight parts, as follows: Part I. The foundations of the American system of agricultural education; Part 2. Development of a definite movement for agricultural education in the United States, and some of the agencies contributing to this movement, 1820-1960; Part 3. The Morrill Land Grant Act of 1862 and the early work of the land-grant colleges, 1860-1877; Part 4. Preparation for large undertakings in agricultural education, 1871-1900; Part 5. Expansion and development of agricultural colleges, 1900-1914; Part 6. Enlarged scope of work of agricultural colleges, 1915-1925; Part 7. Secondary education in agriculture, 1922-1925; Part 8. Agriculture in the elementary schools. A bibliography of the work which in some way contributed to the preparation of this history is given on pages 297-410. After more than forty years of distinguished service in the Department, Doctor True died in Washington, D. C., on April 23, 1929. As Director of the Office of Experiment Stations from 1893-1915, and as Director of the States Relations Service, 1915-1923, Doctor True made notable contributions to the development of agricultural education and research in the United States. From 1923 to the time of his death he devoted much of this time to the preparation of histories of agricultural extension, agricultural education, and agricultural research. The former was issued in January, 1929, as Miscellaneous Publication 15. The latter was practically completed at the time of his death and will be published shortly.

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NEW BOOKS

Roof Gardening. By Ida Mellen. 115 p. il. New York, A. T. De La Mare Company, 1929.

"This little book fares forth, the first of its kind, to invite you to learn from the experience of its author how to build a roof garden that will prosper." (Author's preface)

Vegetable Forcing. By Ralph L. Watts, Dean and Director of the School of Agriculture and Experiment Station of the Pennsylvania State College. Rev. ed. 431 p. il. New York, Orange Judd Publishing Co., 1929.

The previous edition contained the same number of pages.

The Gardener's Bed-Book. Short and long pieces to be read in bed by those who love husbandry and the green growing things of earth. By Richardson Wright, Editor of "House and Garden". 341 p. Philadelphia, J. B. Lippincott Company, 1929.

For each month of the year, the author sets down suggestions and sentiments gathered from his own experience.

Roses and Their Culture. How to propagate, grow and exhibit outdoor roses in America. By S. C. Hubbard, Department of Floriculture, Massachusetts Agricultural College. rev. ed. 127 p. il. New York, Orange Judd Publishing Co., 1928.

Written primarily for the amateur grower. The previous edition contained the same number of pages.

The Chrysanthemum, Its Culture for Professional Growers and Amateurs. A practical treatise on propagation, cultivation, training, raising for exhibition and market, hybridizing, origin and history. By Arthur Herrington. 158 p. il. New York, Orange Judd Publishing Co., 1929.

Lily, Iris and Orchid of Southern California. By Francis Marion Fultz, Assistant Director, Vocational Department, and Forester of the Los Angeles City Schools. 135 p. il. Gardena, California, Spanish American Press, 1928.

"This book is not a technical treatise but the botanical statements which it contains are intended to be accurate and true to fact. The field is as completely covered as seems wise and expedient." (Author's preface)

Sweet Peas, Their History, Development, Culture. By Chas. W. J. Unwin. 2d ed. rev. 192 p. il. Cambridge, W. Heffer & Sons Ltd., 1929.

Proceedings of the Fifteenth Annual Meeting of the Potato Association of America. Held at Columbia University, New York December 27-28, 1928. East Lansing, Michigan, The Association, 1929.

NEW BOOKS (Cont'd)

Rock Gardens, How to Plan and Plant Them. With sections on the wall, paved, marsh, and water gardens. By A. Edwards, in charge of the Rock Garden, Kew. 320 p. il. London and Melbourne, Ward, Lock & Co., Limited, 1929.

"During the last few years the popularity of the rock, water, and bog gardens has increased to an astonishing degree, and in the future these gardens will certainly find even greater favor, for of all the forms of gardening they are the most adaptable to the requirements of space and the depth of one's pocket. I have tried to make this new work comprehensive and thoroughly practical. It tells concisely but in detail, how the rock, water, and bog gardens should be planned and constructed, planted and maintained. To each individual plant is devoted a paragraph, or more, showing the site, soil, treatment, and method of propagation most suitable to it. Lists of plants most adaptable to the various localities, soils, and positions are also given." (Author's preface)

The Plant Rusts (Uredinales). By Joseph C. Arthur, in collaboration with F. D. Kern, C. R. Orton, F. D. Fromme, H. S. Jackson, E. B. Mains, and G. R. Bisby. 446 p. il. New York, John Wiley & Sons, 1929.

"The present volume is the outgrowth of work begun and conducted for many years under the direction of the senior author in the botanical laboratories of the Agricultural Experiment Station of Purdue University. The early work was done in the eighties and nineties, but the more active period has been the last twenty years during which time the rust-flora of North America has been intimately studied. The taxonomic results of this work have been published in the seventh volume of the North American Flora." (Authors' preface)

Theory and Practice in the Use of Fertilizers. By Firman E. Bear, Professor of Soils, The Ohio State University. 348 p. il. New York, John Wiley & Sons, 1929.

"This book has been written for the purpose of bringing together in one volume the various points of view concerning fertiliser practice that have been developed by the many workers in this field since the time of Liebig and of Lawes and Gilbert of Rothamsted fame." (Author's preface)

Fertilizers for Greenhouse and Garden Crops. By Alex. Laurie and J. B. Edmond, Department of Horticulture, Michigan State College. 147 p. il. New York, A. T. De La Mare Company, 1929.

"The present work is designed to afford the grower a better understanding of his fertility problems and at the same time to outline for him a soil management and fertilizer program that is both adequate and comparatively simple... The recommendations made are based on experimental evidence and the best practices of specialists in their respective lines." (Authors' preface)

NEW BOOKS (Cont'd)

Plant Hybridization Before Mendel. By H. F. Roberts, Assistant Professor of Botany in the University of Manitoba. 374 p. il. Princeton, Princeton University Press, 1929.

"In the present work it is intended to present, in some fullness and detail, all the significant results obtained in the field of plant hybridization, down to the discovery of Mendel's papers in 1900. The work of the early hybridists has never hitherto been adequately analyzed and discussed as a whole. Attention has been so concentrated upon Mendelian problems, that the contributions of the precursors of the present scientific period in genetics have been mostly overlooked, and not infrequently underestimated. To bring these contributions out of oblivion, to present them in sequence, and in their relation to one another and to our present knowledge, is the aim and purpose of the writer.... The subject-matter of portions of the first four chapters has appeared in past issues of the Journal of Heredity... The Gartner material has appeared in part in the American Naturalist..." (Author's preface)

China, Mother of Gardens. By Ernest H. Wilson, Keeper of the Arnold Arboretum, Harvard University. 408 p. il. Boston, The Stratford Company, 1929.

"The subject matter of this volume has been drawn from the author's previous work, "A Naturalist in Western China, originally published in England in 1913 and now long out of print. The material used has been amended and thoroughly revised and new illustrations added for presentation to the American public in the present form." (Author)

The Book of the Tulip. By Sir A. Daniel Hall, Director of the John Innes Horticultural Institution. 224 p. il. London, Martin Hopkinson Ltd., 1929.

This volume "attempts to bring together the main facts that are known about the tulip from the point of view of the gardener or lover of flowers who desires to learn something about the scientific as well as the cultural aspects of the flower." A short history of the introduction of the garden tulip to Europe is included.

Plant Ecology. By John E. Weaver, Professor of Plant Ecology, University of Nebraska and Research Associate in Ecology, Carnegie Institution of Washington, and Frederic E. Clements, Associate in Ecology, Carnegie Institution of Washington. 520 p. il. New York, McGraw-Hill Book Company, 1929.

"Designed to meet the need for a comprehensive text-book of plant ecology and to furnish a guide to workers in related fields."

Mushrooms of Field and Wood. By Margaret McKenny. 193 p. il. New York, The John Day Company, 1929.

Sponsored by the Coordinating Council on Nature Activities and intended especially for young people and those who are beginning the study of mushrooms.

NEW BOOKS (Cont'd)

Botany, Principles and Problems. By Edmund W. Sinnott, Professor of Botany, Barnard College, Columbia University. 2d ed. rev. 441 p. New York, McGraw-Hill Book Co., 1929.

In this revision, the text as a whole has been entirely rewritten and a considerable amount of additional material presented, although in its essential features the book is unaltered. The first edition contained 375 pages.

An Introduction to the Study of Landscape Design. By Henry V. Hubbard, Professor of Landscape Architecture, Harvard University, and Theodora Kimball. Rev. ed. 419 p. New York The Macmillan Company, 1929.

In this revised edition "the text and references have been brought up to date and a complete new index and bibliography have been written." (Publishers' announcement)

Agricultural Entomology. By D. H. Robinson, Head of the Biology Department, Harper Adams Agricultural College, Newport, Shropshire, and S. G. Jary, Advisory Entomologist, Southern Province and Lecturer in Economic Entomology in the University of Reading. 314 p. il. London, Duckworth, 1929.

Part I of this book deals in concise form with the elements of entomology and Part II deals, under their respective orders, with those individual insects which are important pests, and where methods of control are already known, these are given. A separate chapter deals with the general principles underlying the control of insect damage.

Ants, Bees and Wasps. A record of observations of the habits of the social hymenoptera. By Sir John Lubbock. New ed. based on 17th. Edited and annotated by J. G. Myers. 377 p. il. New York, E. P. Dutton & Company, 1929.

"It was thought useful, in the present edition, while leaving Lubbock's original text unaltered, to supply at the end of the book a series of notes on the more important points which have been elucidated in recent years, or on which Lubbock's results have been either corroborated or refuted... Lubbock's own list of references has been transferred from the beginning to the close of his text, while a short working bibliography of recent works on ants, bees and wasps has been added... There is also a brief introductory note on Lubbock as an entomologist and animal psychologist..." (Editor's Foreword)

Instinct and Intelligence. By Major R. W. G. Hingston. 296 p. il. New York, The Macmillan Company, 1929.

The author selected insects as the most suitable group for this study which is based on prolonged personal observation. For seventeen years he has collected facts in the jungles of the Oriental tropics and this volume represents a digestion of these facts, together with observations taken from authorities on the subject.

NEW BOOKS (Cont'd)

Recent Advances in Bacteriology and the Study of Infections. By J. Henry Dible, Professor of Pathology and Bacteriology in the Welsh National Medical School. 363 p. il. Philadelphia, P. Blakiston's Son & Co., 1929. (The Recent Advances Series)

"An attempt made by a general reader and student of medical bacteriology to present in a readable form some of the more recent changes in the subject and to indicate the lines upon which it is evolving... The endeavor has been made to take a broad view of many subjects, and, in keeping the balance between extreme technicality and what is already common knowledge, to present a readable exposition of recent work which the general medical reader, not himself especially versed in bacteriology, may appreciate. At the same time the author seeks to indicate to those who do possess some knowledge of bacteriology and the infections what is being done in spheres outside of their own." (Author's preface)

Laboratory and Field Ecology. The responses of animals as indicators of correct working methods. By Victor E. Shelford, Professor of Zoology, University of Illinois. 608 p. il. Baltimore, Williams & Wilkins Company, 1929.

"In this book the writer endeavors to present the results of experience in researches aimed first at the discovery of the way and conditions of life of animals in nature and then at their transplantation into the laboratory for scientific control in experiments simulating natural conditions as closely as possible." (Preface)

Animal Parasitology, with Special Reference to Man and Domesticated Animals. By Robert Hegner, Professor of Protozoölogy, The Johns Hopkins University, Francis M. Root, Associate Professor of Medical Entomology, The Johns Hopkins University, and Donald L. Augustine, Assistant Professor of Helminthology, Harvard University. 731 p. il. New York, and London, The Century Co., 1929.

Prepared for the use of students in colleges, universities, medical schools, schools of hygiene and public health, schools of tropical medicine, and similar institutions.

"There is, at the present time, no textbook of parasitology in the English language that includes the many recent additions to our knowledge of this subject. Since the war, parasitology, especially those phases of the subject that concern the parasites of man, has practically been revolutionized."

Diseases of Animals in Tropical Countries. By C. R. Edmonds, late Assistant Chief Veterinary Officer, Rhodesia, and G. K. Walker, late Principal and Professor of Veterinary Medicine at the Punjab Veterinary College, India. 2d rev. ed. 407 p. London, Baillière, Tindall & Cox, 1929.

In this revised edition "much of the original matter remains as being generally applicable in all tropical and sub-tropical countries, but it has been rearranged and some has been entirely rewritten with a view to incorporating recent knowledge and to including a description of diseases found in all parts of the world." The scope of the first edition was confined to South Africa only.

NEW BOOKS (Cont'd)

The Way of a Man with a Horse, A Practical Book on Horsemanship. By Lieut.-Col. Geoffrey Brooke, with veterinary notes by Col. A. Todd, and a chapter on pigsticking by Lieut.-Col. Arthur Brooks. 288 p. il. Philadelphia, J. B. Lippincott Co., [1929].

Poultry Breeding and Production. By Edward Brown, President of the World's Poultry Congress, 1921, 1924, 1927. 2 v. il. London, Ernest Benn Limited, 1929.

V. I: Races and breeding of domestic poultry; V. II: Poultry breeding and production.

"The progress of poultry breeding and production, in every part of the world during the last half century, has been truly phenomenal. Poultry breeding was, indeed, practiced on more or less systematic lines even before the Christian era, but as a rather negligible branch of food production. Its importance today is world-wide, either as husbandry in connection with agriculture, or on a specialist basis. For more than half a century, Dr. Brown has devoted himself to the development of poultry breeding and production, on which he is universally recognized as a leading authority. In connection with his work he has visited almost every European country, including Russia, and travelled over the greater part of the United States and Canada. The results of the observations that he has thus made and the wide experience that he has gained are here set out in full. Owing to rapid changes and developments, his previous works on this subject are partially obsolete, and have been allowed to go out of print. These volumes which he has now completed are absolutely up-to-date, and embody the very latest knowledge and practice of poultry breeding and production." (Publishers' announcement)

A Dictionary of Poultry. By D. F. Suttie, with introduction by John Kirkwood, Senior Lecturer in Agriculture, West of Scotland Agricultural College, Glasgow. 280 p. il. London and Glasgow, Blackie & Son, Ltd., 1928.

"In encyclopaedic form, it deals with every aspect of the subject." (Introduction)

Poultry Science and Practice. By Roy H. Waite, Professor of Poultry Husbandry, University of Maryland. 433 p. il. New York, McGraw-Hill Book Co., 1929.

"A deliberate attempt has been made to evaluate the newer scientific findings and place them on an equal footing with the older and more established facts; to strike a balance; to make an effort at systematization of our vast storehouse of knowledge of poultry husbandry." (Author's preface)

Practical Poultry Keeping for the Poultryman, the Poultry Farmer, and the Back-Yard Poultry Keeper. By Thomas F. McGrew. 214 p. il. New York, Thomas Nelson & Sons, 1928.

Fifty Years with Poultry. By N. C. Westerfield. 180 p. il. San Francisco, Bruce Brough Press, 1929.

NEW BOOKS (Cont'd)

Objectives and Problems of Vocational Education. Edited by Edwin A. Lee, Professor of Education, University of California. 451 p. New York, McGraw-Hill Book Company, 1928.

This volume is a symposium contributed to by leaders "whose authority to speak concerning the fields they represent there can be no question... The purpose of the book is threefold, (1) to review the underlying purposes for which the Smith-Hughes Act was passed, (2) to show the progress in vocational education since then, and (3) to discuss future methods and progress, taking into account what has gone before." Chapter IV is on "Agricultural Education in Secondary Schools", by Z. M. Smith, State Director of Vocational Education for Indiana", and Chapter VI is on "Development and Trends in Home Economics Education", by Adelaide S. Baylor, Chief of Home Economics Education Service, Federal Board for Vocational Education.

Chemistry of Pulp and Paper Making. By Edwin Sutermeister. 2d ed. re-written. 565 p. New York, John Wiley & Sons, 1929.

"Since this book first appeared in 1920 there has been much activity in the pulp and paper industry along technical lines. This has resulted in the development of several new processes and in increased knowledge of many others. It has seemed advisable, therefore, to go over the technical articles published since 1919, review and incorporate such material as seemed of sufficient importance, and rewrite any portions of this book which were found to be in error in the light of our increased knowledge." (Preface of second edition)

Wood Construction - Principles - Practice - Details. A project of the National Committee on Wood Utilization. Prepared under the direction of the Control Committee, by Dudley F. Holtmann, Construction Engineer, National Committee on Wood Utilization. 711 p. il. New York, McGraw-Hill Book Co., 1929.

Farm Machinery and Equipment. By Harris Pearson Smith, Associate Professor of Agricultural Engineering, Agricultural and Mechanical College of Texas. 448 p. il. New York, McGraw-Hill Book Co., 1929.

Intended primarily as a text for use in farm machinery classes for agricultural and agricultural engineering students. It is also intended as an aid to farm equipment salesmen and dealers, agricultural extension workers, farmers, and others interested in the introduction and use of labor-saving equipment for the farm." (Author's preface)

The History of a Crime Against the Food Law. The amazing story of the national food and drugs law intended to protect the health of the people prevented to protect adulteration of foods and drugs. By Harvey W. Wiley. 413 p. il. Washington, D.C., Harvey W. Wiley, Publisher, 1929.

NEW BOOKS (Cont'd)

Roadside Development. By J. M. Bennett, Superintendent of Parks and Forestry, Board of County Road Commissioners, Wayne County, Michigan. 265 p. il. New York, The Macmillan Company, 1929.

"The work as described in this book is not a matter of beautifying the highways as it is so often referred to, but is the business of developing the highways for the purpose of safely increasing their practical use and improving the roadsides to a degree where Nature can step in and make them beautiful. Country roads are for the most part dealt with. Often, however, as roads pass through cities or villages they remain under the control of the county or state, or roadside development has been considered as it applies in such cases. The thought is not to transform all country roads into city boulevards, but to have them remain country roads of a type fitting to the community and commensurate with the amount of traffic carried. This work also serves in many instances as a necessary step in preparing roads for their ultimate development as city streets... The text is based entirely on practical experience and not theory." (Preface)

The Problem of Motor Transport. An economic analysis. By Christopher T. Brunner. 187 p. London, Ernest Benn Limited, 1928.

"The development of motor transport in the past few years has been so rapid that few people yet realize what a large proportion of the transport work of the country is done by road. There is a very extensive literature dealing with transport economics, but the proportion of this which is devoted to motor transport is unfortunately negligible. This is the excuse for this little book in which an attempt is made to outline the present functions and future possibilities of road transport in a way which will be useful both to the student of transport and to the more general reader." (Author's preface)

The XIT Ranch of Texas and the Early Days of the Llano Estacado. By J. Evetts Haley, Field Secretary, Panhandle-Plains Historical Society. 261 p. il. Chicago, The Lakeside Press, 1929.

"Thinking that their descendants and relatives might like to have a permanent record of the development of this so-called desert (the Panhandle of Texas) from a wild prairie, roamed by Indians, buffalo, mustangs and antelope, to a country of railroads and prosperous farmers, the present owners of what remains of the 'Capitol Reservation Lands' have had this story compiled." (Introduction)

Practical Dietetics With Reference to Diet in Health and Disease. By Alida Frances Pattee. 17th ed. rev. 856 p. re. Mount Vernon, N. Y., A. F. Pattee, Publisher, 1929.

"The subject matter in the present book has undergone radical revision with a view of keeping the reader informed as to the latest facts and the constantly changing viewpoints in regard to feeding both the well and the sick. The text has also been entirely rewritten with the aim of reflecting the most modern methods of teaching dietetics." (Preface)

NEW BOOKS (Cont'd)

A Picture of World Economic Conditions. 119 p. New York, National Industrial Conference Board, 1929.

Economic History of the United States. By Harold Underwood Faulkner, an Associate Professor of History in Smith College. 301 p. New York, The Macmillan Company, 1929.

American Economic History. By Walter W. Jennings, Professor of Economics, University of Kentucky. 546 p. New York, Thomas Y. Crowell Company, 1928.

"In 1926 the present writer issued a work entitled 'A history of economic progress in the United States'. This dealt ... with the whole course of our economic progress and was addressed to advanced college students. In the present briefer work the author has attempted a topical method of treatment. To lessen the burden of statistics he has made use of a hundred charts. The text is thus better adapted to beginners in economic history, and can be used profitably in junior college work." (Author's preface).

The Next Ten Years in British Social and Economic Policy. By G. D. H. Cole. 459 p. London, The Macmillan Company, 1929.

Chapter XII is devoted to "Agriculture and the Land" and Chapter XIII to "The Control of Trade and Prices".

What about the Year 2000? An economic summary of answers to the vital questions: Will our land area in the United States meet the demands of our future population? How are we to determine the best use of our land resources? Prepared under the direction of Joint Committee on Bases of Sound Land Policy, organized by the Federated Societies on Planning and Parks, composed of the American Civic Association, American Institute of Park Executives, American Park Society, National Conference on City Planning, and National Conference on State Parks. 168 p. Harrisburg, Pa., Mount Pleasant Press, 1929.

Primitive Economics of the New Zealand Maori. By Raymond Firth, with a preface of R. H. Tawney, Reader in Economic History, University of London. 505 p. il. London, George Routledge & Sons, Ltd., 1929.

Wages in Foreign Countries. A compilation of the latest available data regarding wages in industrial and agricultural employments. 267 p. Senate Document no. 9, 71st Congress, 1st Session. Washington, Govt. Ptg. Off., 1929.

Farm Relief and Its Antecedents. By Rayner W. Kelsey, Professor of American History in Haverford College. 36 p. Haverford, Pennsylvania, Pennsylvania History Press, 1929. (Handbooks of Citizenship, Topical Supplements to Textbooks of American History and Government)

NEW BOOKS (Cont'd)

Research in the Social Sciences: Its Fundamental Methods and Objectives.
Edited, with an Introduction, by Wilson Gee, Director of the Institute for Research in the Social Sciences, University of Virginia.
305 p. New York, The Macmillan Company, 1929.

Social Research, A Study in Methods of Gathering Data. By George A. Lundberg, Associate Professor of Sociology, University of Pittsburgh. 380 p. New York, Longmans, Green & Co., 1929.

"The present work has been produced primarily in order to bring together and to make available in compact form materials which the author has found useful in his course on Methods of Research." (Author's preface)
"Selected references" p. 325-350.

Principles of Rural-Urban Sociology. By Pitirim Sorokin and Carle C. Zimmerman, University of Minnesota. 652 p. New York, Henry Holt and Company, 1929.

"This book is in some degree a concise summary of another, much larger and much more fundamental three-volume work, 'Source book in rural sociology' (to be published by the University of Minnesota Press in 1930 or 1931), prepared by the authors jointly with Dr. Charles J. Galpin under the auspices of the United States Department of Agriculture and the University of Minnesota."

The Cooperative Movement in India, A Comparative Study. By J. L. Raina, with a foreword by P. A. Wadia, Professor of Politics and Economics, Wilson College, Bombay. 130 p. Bombay, D. B. Taraporewala Sons & Co., 1928.

A compilation from the notes kept by the author during a tour through four of the Indian provinces.

The Cooperative Movement in Russia During the War. Consumers' Cooperation, by Eugene M. Kayden, formerly Economist and Trade Specialist with the War Trade Board and the Department of State; Credit and Agricultural Cooperation, by Alexis N. Antsiferov, formerly Professor of Economics and Statistics, Kharkov University, Russia. 420 p. New Haven, Yale University Press. 1929. (For the Carnegie Endowment for International Peace, Division of Economics and History)

Human Factors in Cotton Culture. A study in the social geography of the American South. By Rupert B. Vance, Research Associate, Institute for Research in Social Science, University of North Carolina. 346 p. Chapel Hill, The University of North Carolina Press, 1929.

This volume is planned as a part of a series of studies in the regional South undertaken by the Institute for Research in Social Science at the University of North Carolina.

The Sheep and Wool Industry in Australia and New Zealand, a practical handbook for sheep-farmers and wool-classers, with chapters on wool-buying and selling, sheep-skins and kindred projects. By Henry B. Smith, revised in conjunction with Harold Haile. 3d ed. 215 p. il. Melbourne & Sydney, Whitcombe and Tombs, Limited, 1928?

NOTES ON PERIODICALS

American

Associated Arizona producer. Phoenix, Ariz. Changed to Arizona producer, with v. 8, no. 1; Mar. 15, 1929.

Butchers' advocate. New York. Changed to National butcher and butchers' advocate, with v. 86, no. 22; March 6, 1929.

California grape grower. San Francisco. Ceased with v. 10, no. 6; June 1, 1929. Succeeded by California grower. v. 1, No. 1. July, 1929.

Carolina fur animal. Charlotte, N. C. Changed to Southern fur animal & poultry digest, with v. 1, no. 11; June 1929.

Chicago lumberman. Chicago, Ill. Ceased with v. 54, no. 2; Feb. 1929. In March 1929 consolidated with Lumber manufacturer & dealer.

Farm, stock and home. Minneapolis, Minn. Ceased with v. 45, no. 9; May 1, 1929. Absorbed by the Farmer.

Farmer. St. Paul, Minn. With v. 47, no. 22, June 1, 1929, absorbed Farm, stock and home, and changed title to the Farmer and farm, stock and home.

Implement and hardware trade journal. Kansas City, Mo. Changed to Implement & tractor trade journal, with v. 43, no. 25; Feb. 2, 1929.

Louisiana highway magazine. Baton Rouge. Ceased with v. 4, no. 7; Aug. 1928.

Lumber manufacturer and dealer. St. Louis, Mo. Changed to National lumberman, with v. 83, no. 4, Apr. 1929.

Pacific poultry breeder. San Jose, Calif. With v. 43, no. 10, Mar. 1929, consolidated with Poultry craftsman to form Poultry craftsman and breeder.

South Dakota farmer and breeder. Sioux Falls, S. D. Changed to Farmer and breeder, with v. 52, no. 5; March 1, 1929.

Wallace's farmer and The Iowa homestead have been merged. The first issue under the new title of Wallace's farmer and Iowa homestead will appear October 25th.

Wisconsin agriculturist. Racine, Wis. With June 1, 1929, changed to Wisconsin agriculturist and farmer.

Wisconsin farmer. Madison, Wis. Ceased with v. 58, no. 21; May 23, 1929. Absorbed by Wisconsin agriculturist.

Foreign

Archiv für hygiene. München und Berlin. Changed to Archiv für hygiene und bakteriologie, with bd. 101, hft. 1; 1929.

Argentine Republic - Ministerio de agricultura. Boletin. Publication suspended, Oct. 1922-Dec. 1928. Resumed pub. with v. 28, no. 1, Jan./Mar. 1929.

Australian fruitgrower, fertiliser and poultry farmer. Brisbane. Changed with v. 9, no. 8, June 1, 1929, to New Australian fruit grower.

The field, the farm the garden. London. Changed with v. 153, no. 3970, Jan. 24, 1929, to The field, the country gentleman's newspaper.

Phytopathologische zeitschrift. (E. Schaffnit, ed., Berlin, Ger.) irreg. 4°. il. bd. 1, hft. 1; 1929. 40 RM. Successor to Forschungen auf dem gebiet der pflanzenkrankheiten.

Fruiterer's review. London. Changed to Fruiterer's and florist's review, with v. 4 (no.37) July, 1928.

Milchwirtschaftliche zeitung. Wien. Changed to Österreichische milchwirtschaftliche zeitung, with v. 36, no. 1, Jan. 1929.

Notiziario chimico-industriale. Torino. Changed to L'industria chimica, with v. 4, no. 1; Jan. 1929.

Revista de agricultura (Santo Domingo - Dept. de agricultura- Seccion de publicaciones) mo. il. f. free. Not issued since v. 19, no. 8; Feb. 1925. Resumed pub. with v. 20, no. 1; Feb. 1929.

World's butter review. Edmonton, Canada. Ceased with v. 2, no. 11; Nov. 1928. Dec. 1928 - Apr. 1929 not issued. May, 1929 merged with Butter and cheese journal.

Zeitschrift für sukkulentenkunde. Berlin-Dahlem. Ceased with bd. 3, hft. 16; Dec. 15, 1928. Succeeded by Deutsche kakteen- gesellschaft. Monatsschrift.

OFFERS

The U. S. Department of Agriculture Library offers the following books and periodicals.

Books

"Diccionario de Bibliografia Agronomica"

Empfehlenswerte Obstsorten; hrsg. vom Landes-Obstbauvereine für Nied. Oesterreich. Lieferungen 1-8 (A few plates are missing.) The work is said to be complete in 12 Lieferungen. U.S.D.A. has only 1-9. Consists of fine colored plates of varieties with descriptive text.

Periodicals

Agricultural gazette of New South Wales.

- v. 21, pt. 1, Jan. 1910.
- v. 26, pt. 4, 6, Apr., June 1915.
- v. 28, pt. 1, 3-12, Jan., Mar.-Dec. 1917, t. p. & ind.
- v. 29, pt. 1-9, 11, Jan.-Sept., Nov. 1918.
- v. 30, pt. 8, 12, Aug., Dec. 1919.
- v. 31, pt. 5-6, May-June, 1920.
- v. 32, pt. 4-6, 8, Apr.-June, Aug. 1921.
- v. 33, pt. 3-4, 10, Mar.-Apr. Oct. 1922.
- v. 37, pt. 1-12, 1926.
- v. 38, (complete)

Agronomia. Tartu, Esthonia.

- 1921: no. 1-6, Jan.-Dec. 1921.
- 1922: no. 1-8, Jan.-Dec. 1922.
- 1923: no. 1-8, Jan.-Dec. 1923.
- 1924: no. 1-12, Jan.-Dec. 1924.

Belgium - Colonies, Min. de Agric. Dir. Gen. de l'.. Bulletin agricole du Congo Belge.

- v. 9, no. 1-4, Mar.-Dec. 1918.
- v. 11, no. 1-4, Mar.-Dec. 1920.
- v. 12, no. 1-4, Mar.-Dec. 1921.
- v. 13, no. 1-4, Mar.-Dec. 1922.
- v. 14, no. 1-4, Mar.-Dec. 1923.
- v. 15, no. 1-4, Mar.-Dec. 1924.
- v. 16, no. 1-4, Mar.-Dec. 1925.

California pear grower.

- v. 1, no. 5, Nov. 1921.
- v. 2, no. 1, 3, 4, 6, Feb., Apr., May, July, 1922.
- v. 3, no. 1, 3, 4, 6-12, Feb., Apr., May, July 1923-Jan. 1924.
- v. 4, no. 1-11, Feb.-Dec. 1924.

Empire cotton growing review.

- v. 1-2, 1924-1925.

Gardener's chronicle.

- 1872 (Bound. A few pages missing)
- 1873 (Bound. A few pages missing)
- 3d ser. vol. 45 (Jan.-June, 1909) (Some plates missing)

OFFERS (Cont'd)

U. S. Department of Agriculture Library (cont'd)

Periodicals

Gt. Britain. Agric. Min. of. Journal.

v. 21, no. 7, Oct. 1914.
v. 25, no. 6, 10, 12, Sept. 1918; Jan., Mar. 1919.
v. 26, no. 1-12, Apr. 1919-Mar. 1920.
v. 27, no. 1-12, Apr. 1920-Mar. 1921.
v. 28, no. 1-12, Apr. 1921-Mar. 1922.
v. 29, no. 1-12, Apr. 1922-Mar. 1923.
v. 30, no. 1-12, Apr. 1923-Mar. 1924.
v. 31, no. 1, 2, 4, 5, 7, 8, 10-12, Apr., May, July, Aug., Oct., Nov., 1924, Jan.-Mar. 1925. t. p. & ind.
v. 32, no. 1-12, Apr. 1925-Mar. 1926. t. p. & ind.
v. 33, no. 4, 11, July 1926; Feb. 1927.

Mecklenburgischer patriotischer verein. Landwirtschaftliche annalen. 1869-1272, 1888, 1891, 1892. (Bound volumes)

Ohara institut für landwirtschaftliche forschungen. Berichte.

Bd. 1, no. 2-5, 1917-1920.

Bd. 2, no. 2-4, 1922-1924.

Bd. 3, no. 1-5, 1926-1928.

La Pedologie.

1906, no. 1-4.

1907, no. 1-4.

1908, no. 1-4.

1909, no. 1-4.

1911, no. 1-4.

1912, no. 1-4.

1913, no. 1.

1914, no. 1-4.

1915, no. 1-3.

1924, no. 1-2.

Philippine agricultural review.

v. 3, no. 3, 10, 12, Apr., Oct., Dec. 1910.

v. 4, no. 11, Nov. 1911.

v. 5, no. 1-12; no. 13 (Annual Report, 1911-12).

v. 6, no. 1-12, 1913.

v. 7, no. 1-12, 1914.

v. 8-v.19, 1915 - 1926.

So. Australia - Agric. Dept. of. Journal.

v. 17, no. 3-7, 9-12, Jan.-Feb. 1914; Apr.-Apr.-July, 1914.

v. 18, Aug. 1914-July 1915. t. p. & ind.

v. 18, no. 6-9, 11, 12, Jan.-Apr., June-July, 1910.

v. 19, Aug. 1915-July 1916. t. p. & ind.

v. 20, Aug. 1916-July 1917. t. p. & ind.

v. 21 - v. 23, Aug. 1917 - July 1920.

v. 24, no. 1, 3-12, Aug. 1920, Oct.-July 1921. t. p. & ind.

v. 25,-v. 29, Aug., 1921 - July 1926.

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Periodicals

Skogsvardsföreningens tidsskrift.

Arg. 12, no. 6, June 1914.

Arg. 13, no. 1-12, 1915. Suppl. 1-2, 1915.

1916, Bilaga 1.

Arg. 15, no. 1-12, 1917. Bilaga 5, 1917.

Arg. 16, no. 1-12, 1918.

Arg. 17, no. 1-8, 12, 1919 Bilaga 1.

Arg. 18 to Arg. 24, 1920 to 1926.

Spain - Agric., industria y comercio. Dir. gen. de. Boletin de agricultura tecnica y economica.

Ano 12, no. 133 - 144, 1920.

Ano 13, no. 145 - 156, 1921.

Ano 14, no. 157 - Ano 16, no. 192, 1922-1924.

Seccion Oficial.

Ano 17, no. 193 - 204, 1925. Ano 18, no. 205-216, 1926.

Seccion Doctrinal

Ano 17, no. 193-204, 1925. Ano 18, no. 205-216, 1926. Suppl. to no. 209-210, 216, 1926.

Tectona.

Deel 10, t. p. & ind. 1917.

Deel 13, no. 11, 12, Nov., Dec. 1920.

Deel 14, no. 4/5, Apr./May, 1921.

Deel 15 - Deel 19, 1922 - 1926.

Tokyo. Imperial Univ. Agric. College of. Journal.

v. 3, no. 1, 3-6.

v. 5, no. 1-2, 4.

v. 6, no. 3-5.

v. 7, no. 2.

v. 8, no. 1-3.

Tropical Agriculture.

v. 1 - v. 2, 1924-1925. t. p. & ind.

Supplements, v. 2, no. 3, 5, 9.

v. 3 - v. 4, 1926-1927. t. p. & ind.

Supplements, v. 4, no. 9.

Zeitschrift für forst- und jagdwesen. Berlin.

v. 47, no. 1-7, 10-12, Jan.-July, Oct.-Dec. 1915.

v. 48, no. 1-12, 1916.

v. 49, no. 1-4, 7-12, Jan.-Apr., July-Dec. 1918.

v. 50, no. 1, 3-6, Jan., Mar.-June, 1918.

v. 51, no. 1, Jan. 1919.

v. 52, no. 1-2, 4-12, Janl-Feb., Apr.-Dec. 1920.

v. 53, no. 1-5, 7, 11-12, Janl-May, July, Nov.-Dec. 1921.

v. 54, no. 1-2, 1924.

v. 55, no. 2-12, Feb.-Dec. 1925.

OFFERS (cont'd)

The Library of the Virginia Polytechnic Institute, Blacksburg, wishes to dispose of the following publications. Libraries desiring any of the items may obtain them from that Library without charge by paying the cost of transportation.

Books

Barn plans and out buildings. Orange Judd, 1886.
Cassino, S. E. Naturalists directory. Boston, 1886.
The chocolate plant: its products. Walter Baker & Co., 1891.
Clater, F. Every man his own cattle doctor. Lea & Blanchard, 1844.
Crozier, A. A. Modification of plants. Ann Arbor, Mich., 1885.
Emerson, G. B. Manual of agriculture. Orange Judd, 1885.
Farmers Register. Vol. I, 1883. Edmund & Julian Ruffin.
Goffart, M. A. Ensilage of maize. New York, 1879.
Good, P. P. Family flora. Elizabethtown, N. J., 1845. Vol. I.
Harlan, C. Farming with green manures. Lippincott, 1880.
Henry, W. A. Feeds and feeding. Madison, Wisc., 1898.
Jennings, R. Sheep, swine and poultry. J. E. Pöltner, 1864.
Killebrew, J. B. Grasses of Tennessee. American Co., 1878.
Killebrew, J. B. Resources of Tennessee. Tavel, Eastman & Howell, 1874.
Killebrew, J. B. Sheep husbandry. Tavel, Eastman & Howell, 1880.
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California. 5th Report of the State Board of Horticulture. 1895-96.
California, University Agricultural Experiment Station Report, 1887-89.
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Virginia Polytechnic Institute (cont'd)

State Publications (cont'd)

Georgia. State Department of Agriculture Reports.
Vol. XXII - 1896
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Illinois. Transactions of the Department of Agriculture, 1878, 1877.

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Bulletins 17-36 - vol. 2. 1891-94.
" 37-48 - vol. 3. 1895-97.
" 49-60 - vol. 4. 1898-1900.

Industrial University Report. 9th and 8th Report of Board of Trustees.

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Kansas. State Agricultural College.
Biennial Report, 3r. 1881-82.

Louisiana. State Horticulture Biennial Reports, 1st, 8th, 10th, 14th, 16th.

Maine. State Board of Agriculture. Stubbs, W. C. Sugar Cane, v.I.

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State College. Director of Experiment Station. Annual Reports 1895, 1897, 1900, 1902.

Maryland. Agricultural College Experiment Station. Biennial Report 1888-9; 2nd and 4th Annual Report.

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Michigan. State Board of Agriculture. Annual Report. 42nd and 62nd.
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Journal of the Royal Agriculture Society of England. Vol. 18; 23, Pts. 1 & 2.

Ontario. Annual Report of the Department of Agriculture. 1888, 1891, 1896, 1899, 1901.
7th Annual Report of Ontario School of Agriculture, 1881.

Report of Commissioner of Agriculture and Dairying for Canada, 1897.

OFFERS (Cont'd)

The Agricultural Library of the University of Tennessee wishes to dispose of American Shorthorn Herdbooks, volumes 45-69.

The Library of the Agricultural and Scientific Bureau, N. V. Potash Export Co., 19 West 44th Street, New York City, has a set of the "Card Index to Experiment Station Literature" which it does not care to keep, and is willing to donate the set to any library desiring it.

The Library of the Office of Experiment Stations, U. S. Department of Agriculture, has recently received two large collections of duplicates of State Agricultural Experiment Station publications, many of them going back to the early years of the stations. If any of the Agricultural College libraries wish to complete their files it is suggested that they correspond with Miss Cora L. Feldkamp, Librarian of the Office of Experiment Stations, in regard to the possibility of obtaining the numbers they lack. Requests should be sent in promptly as the collection takes up valuable space and can only be held for a short time. The publications will then be returned to the issuing offices.

NEW MEMEGRAPHED SERIALS

U. S. Department of Agriculture

On March 1, 1929 "The V. & F Pathologist", "Fruit Disease News Notes", and "The Eye" all mimeographed publications issued by units of the Bureau of Plant Industry which have been amalgamated into the new Office of Horticultural Crops and Diseases, ceased to exist. In their place "The Office Of Horticultural Crops and Diseases semi-monthly news-letter" is being issued as the official organ of the office. The first number was issued on March 1, 1929.

"The Extension Poultry Husbandman" is a new publication of the Bureau of Animal Industry. It began with vol. 1, no. 1, September 1929, but later "hatching dates have not been set" for the size and frequency of the publication will depend upon the contributions of the poultry specialists.

"Timely Extension Information" is a new publication of the Extension Service of the U. S. Department of Agriculture.

SELECTED LIST OF MIMEOGRAPHED PUBLICATIONS
of the U. S. Department of Agriculture
issued during June-August, 1929, exclusive of current issues of serials.*

Bureau of Agricultural Economics

Agricultural relief; a selected and annotated bibliography. Comp. by Esther M. Colvin. 1929. 52 p. Agricultural economics bibliography no. 27. (Issued by the Library)

Carpet wool situation, July 26, 1929. 12 p. (Issued by Division of Statistical and historical research)

Conditions affecting agriculture in the lower Rio Grande Valley of Texas. A short statement of interest to prospective purchasers of land. 12 p. (Issued by Division of land economics)

Legal status and responsibility of members and management of cooperative associations. By H. M. Bain. 15. p. (Issued by Division of cooperative marketing)

List of manufacturers and jobbers of fruit and vegetable containers (revised to June, 1929). Comp. by Mariem Blanchfield. 19 p. (Issued by Division of fruits and vegetables)

Maintaining satisfactory quality and condition of wheat harvested with combines in the hard red winter wheat area, season 1928. A preliminary report. By J. H. Cox and E. G. Boerner. 1929. 13 p. (Issued by Grain investigations)

Marketing Colorado lettuce. Summary of 1928 season (including information on Colorado peas, cauliflower, mixed vegetables, and cabbage). By Wendell Calhoun. 1929. 35 p. (Issued by Division of fruits and vegetables, and Colorado extension service, cooperating)

Marketing Cumberland, Shenandoah, Potomac district apples. Summary of 1928 season. By H. E. Rutland. 30 p. (Issued by Division of fruits and vegetables)

Marketing Northwestern fresh prunes. Summary of 1928 season. By A. E. Prugh. 37 p. (Issued by Division of fruits and vegetables)

Marketing western New York celery. Summary of 1928 season. By S. W. Russell and A. L. Thomas. 25 p. (Issued by Division of fruits and vegetables)

Marketing (western slope) Colorado apples. Summary of the 1928 season. By J. D. Hamilton. 18 p. (Issued by Division of fruits and vegetables.)

*For a list of the principal serial publications issued regularly, see vol. 4, no. 1-2, p. 347.

SELECTED LIST OF KIMMOGRAPHED PUBLICATIONS (Cont'd)

Bureau of Agricultural Economics (Cont'd)

Motor-truck movement of fruits and vegetables from Delaware and the eastern shores of Maryland and Virginia, 1928. By Brice Edwards and J. W. Park. 25 p. (Issued by Division of fruits and vegetables)

One season's record of official federal-state rough rice grading in the south and what it means to rice growers. By W. D. Smith. 17 p. (Issued by Grain investigations)

Problems and research methods in cotton ginning. A preliminary report. by Robert W. Webb. 13 p. (Issued by Division of cotton marketing)

Quality of the cotton spun in the United States (year ending July 31, 1928). A preliminary report. By Peter M. Strang. 14 p. (Issued by Division of cotton marketing)

Report of a survey of the per capita consumption of fluid milk and cream in families with children in the junior high schools and upper grade schools in Washington, D. C. By F. A. Buechel. 5 p. (Issued by Division of dairy and poultry products)

Research in progress in the Bureau of agricultural economics June 30, 1929. 96 p.

A study of farmer elevator operation in the spring wheat area. Series of 1926-27, pt. 1. Summary of information for use of farmers' elevators in reflecting premiums for high protein wheat to growers. A preliminary report. By W. J. Kuhrt. Rev. July, 1929. 8 p. (Issued by Division of cooperative marketing)

The use of cotton bags as consumer packages for potatoes. By J. W. Park. 7 p. (Issued by Division of fruits and vegetables)

Bureau of Animal Industry

Stallion enrollment and the horse-breeding situation. By J. O. Williams and S. R. Speelman. 12 p. (Issued by Animal husbandry division)

Bureau of Biological Survey

Publications... available for general distribution. 4 p.

Bureau of Chemistry and Soils

Farm wastes for paper and board making. 18 p. (Issued by Industrial farm products division)

SELECTED LIST OF MICROGRAPHED PUBLICATIONS (Cont'd)

Extension Service

Club data from extension studies. By M. C. Wilson. 11 p. Extension service circular 107. (Issued by Office of cooperative extension work)

Coordinating extension marketing, farm management, and production programs from a marketing standpoint. By C. W. Hammans. 9 p. (Issued by Office of cooperative extension work)

Coordinating extension work, farm management, and production program. By A. E. Anderson. 3 p. (Issued by Office of cooperative extension work)

The coordination of research and extension activities in marketing.

By Dana G. Card. 5 p. (Issued by Office of cooperative extension work)

Economic information in a coordinated agricultural program. By O. G. Lloyd. 6 p. (Issued by Office of cooperative extension work)

The effectiveness of extension in reaching negro farmers. By M. C. Wilson. 12 p. (Issued by Office of cooperative extension work)

The farm youth and their economic environment. By Eugene Merritt. 15 p. Extension service circular 108. (Issued by Office of cooperative extension work)

Film strips of the United States Department of agriculture, July 1, 1929. 4 p. (Issued by Office of cooperative extension work)

Foreign agricultural extension activities: Colombia, Norway, Germany, Finland, and India. Abstracts from recent reports and publications received by J. M. Stedman. 17 p. Extension service circular 110. (Issued by Office of cooperative extension work)

The 4-H club situation. By C. B. Smith. 7 p. Extension service circular 109. (Issued by Office of cooperative extension work)

Functional or commodity specialization of marketing specialists. By Sam H. Thompson. 2 p. (Issued by Office of cooperative extension work)

Home demonstration work - how to help the public to know what it means. By Mrs. Louise H. Campbell. 6 p. (Issued by Office of cooperative extension work)

Home economics extension work. By C. B. Smith. 6 p. Extension service circular 111. (Issued by Office of cooperative extension work)

Home management exhibit ideas, 1929. Comp. from a study of annual reports and from other sources. 14 p. (Issued by Office of cooperative extension work)

SELECTED LIST OF MICROGRAPHED PUBLICATIONS (Cont'd)

Extension Service (Cont'd)

How can the club girls' home-making program be served by the home demonstration staff. By Mary Ellen Brown. 6 p. (Issued by Office of cooperative extension work)

How can the Extension service assist agricultural cooperatives. By J. W. Jones. 6 p. (Issued by Office of cooperative extension work)

How can the Extension service assist in the organization and operating problems of the cooperative marketing association. By B. A. Wallace. 6 p. (Issued by Office of cooperative extension work)

How to help the new home demonstration agent before she goes into the county. By Susan Z. Wilder. 11 p. (Issued by Office of cooperative extension work)

How to help the home demonstration agent in the county. By Adele Koch. 6 p. (Issued by Office of cooperative extension work)

How to help the new home demonstration agent after she is located in the county. By R. K. Bliss. 3 p. (Issued by Office of cooperative extension work)

The immediate future in extension work. By C. W. Warburton. 7 p. Extension service circular 105. (Issued by Office of cooperative extension work)

In what way can the Extension service render the most effective service to small cooperatives. By H. C. Hensley. 8 p. (Issued by Office of extension work)

Measuring the progress of extension work. A study of 304 farms and farm homes in Vermilion County, Ill., 1928. By M. C. Wilson, W. H. Smith, and Kathryn Van Aken Burns. 22 p. Extension service circular 104. (Issued by Office of cooperative extension work)

Meeting and overcoming difficulties encountered in establishing home demonstration agents. By H. C. Ramsower. 7 p. (Issued by Office of cooperative extension work)

Methods of getting principles of cooperative marketing across to county extension workers and through them to farmers. By R. K. Bliss. 4 p. (Issued by Office of cooperative extension work)

Possibilities and limitations of assistance to cooperative associations by the Extension service. By C. W. Warburton. 7 p. Extension service circular 112. (Issued by Office of cooperative extension work)

SELECTED LIST OF MIKEOGRAPHED PUBLICATIONS (Cont'd)

Extension Service (Cont'd)

Program making. By Neale Knowles. 2 p. (Issued by Office of cooperative extension work)

Questions and answers about farm boys and girls 4-H club work. 6 p. (Issued by Office of cooperative extension work)

Recent developments in marketing poultry and eggs. By L. G. Foster. 7 p. (Issued by Office of cooperative extension work)

Recent developments in tobacco marketing. By D. G. Card. 2 p. (Issued by Office of cooperative extension work)

Reports of junior conferences at the third national 4-H club camp, Washington, D. C., June 19-25, 1929. 10 p. (Issued by Office of cooperative extension work)

Statistical results of cooperative extension work, 1928. By M. C. Wilson. 32 p. Extension service circular 106. (Issued by Office of cooperative extension work)

Summary of marketing conference held at Purdue University, La Fayette, Ind., April 24 to 26, 1929. 2 p. (Issued by Office of cooperative extension work)

Type of information that should be given members and prospective members of a cooperative. By J. W. Jones. 5 p. (Issued by Office of cooperative extension work)

What are our objectives in home-economics work. By Mary L. Matthews. 4 p. (Issued by Office of cooperative extension work)

Who's who at the National boys and girls 4-H club camp, Washington, D. C., June 19-25, 1929. 28 p. (Issued by Office of cooperative extension work)

Why some cooperators have failed in Kentucky. By G. B. Nance. 4 p. (Issued by Office of cooperative extension work)

Why some cooperatives have been discontinued in Minnesota. By D. V. Dvoracek. 4 p. (Issued by Office of Cooperative extension work)

Why some cooperatives have failed in Nebraska. By H. C. Filley. 5 p. (Issued by Office of cooperative extension work)

Food, Drug and Insecticide Administration

Fig testing. By Sidney J. Howard. 11 p.

Fruits and fruit products. Investigations conducted by Bureau of chemistry and Food, drug and insecticide administration workers from 1862 to 1928. Comp. by M. T. Read. 112 p. (F. D. digest no. 2)

Forest Service

Forest economics bibliography. 31 p. (Issued by Library)

Forestry news: what it is and how to write it. By C. E. Randall. 25 p. (Issued by Division of information)

Little Red Riding Hood and the red fire wood. By R. M. Conarro. 6 p. (Issued by District forester, Eastern national forest district)

Bureau of Plant Industry

Characteristics and performance of Hope and H-44 wheats. By J. Allen Clark. 8 p. (Issued by Office of cereal crops and diseases)

The effect of ethylene on color and other changes in fruits and vegetables. By Dean H. Rose. 3 p. (Issued by Office of horticultural crops and diseases)

Habits of the cotton root rot fungus. By O. F. Cook. 4 p. (Issued by Office of cotton, rubber, and other tropical plants)

History and performance of Newturk, an awnless variety of hard red winter wheat. By J. Allen Clark. 12 p. (Issued by Office of cereal crops and diseases)

Horticultural organizations of the United States and Canada. 22 p. (Issued by Office of horticultural crops and diseases)

Organizations commercially handling horticultural products in the United States and Canada. 17 p. (Issued by Office of horticultural crops and diseases)

A portable precooling apparatus. By A. G. Galloway. 5 p. (Issued by Office of horticultural crops and diseases)

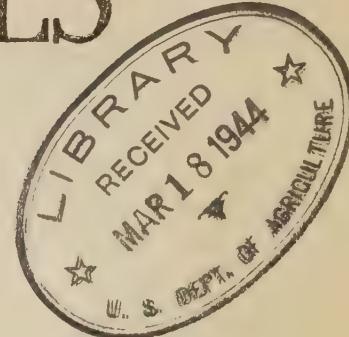
Removal of spray residue from California Bartlett pears. By W. T. Pentzer and Firman Thompson. 7 p. (Issued by Office of horticultural crops and diseases)

Tulip fire. By M. B. McKay. 2 p. (Issued by Office of horticultural crops and diseases.)

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AGRICULTURAL LIBRARY NOTES

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AGRICULTURAL LIBRARY NOTES

Vol. 4.

October-December, 1929

No. 10-12

READING COURSE IN HOME ECONOMICS

A reading course entitled "Home Economics, the Art and Science of Homemaking", by Helen W. Atwater, was published in November by the American Library Association. This course is no. 50 of the "Reading with a Purpose" series of leaflets issued as reading guides on a variety of subjects, each one being written by a person who is a well-known authority on his or her particular field. Miss Atwater, who has been editor of the Journal of Home Economics for the past six years, was connected with the U. S. Department of Agriculture from 1909 to 1923. She is widely known through her association with her distinguished father, W. O. Atwater, of the Department, and by Farmers' Bulletins and other popular and professional publications she has written, as well as by her editorial work. During the war she was in close cooperation with the Food Administration, representing the Department. In addition to these special professional qualifications for guiding the lay reader to the subject of home economics, Miss Atwater has an unusual breadth of viewpoint, clarity of understanding of the problems involved, and the ability to say what she means in simple, accurate language.

The course Miss Atwater outlines is limited to six well-chosen books on various aspects of home-making-family relationships, the management of money and labor for the greatest returns; food and nutrition, clothing, and the application of art principles to the arrangement of the house and its furnishings. She reviews each of the six books selected, and at the same time fills the text of her 40-page leaflet with suggestions that are bound to lead the attentive reader much further into some of these fields. There are references in several places to the work of the Bureau of Home Economics and the extension service for women. Specific mention is made of the time studies, studies bearing on standard specifications for sheetings and household refrigerators, bulletins and charts of the Department showing convenient kitchen arrangement, nutrition investigations, bulletins dealing with foods, the radio cook book, and the work on children's clothing.

Like others of the series, this number is obtainable from the American Library Association in Chicago, Illinois, cloth-bound at fifty cents, paper-bound at thirty-five cents.

PORTRAITS AND BIOGRAPHIES OF FAMOUS HOME ECONOMISTS

Twenty-eight men and women prominent in the home economics movement have been selected for inclusion in a compilation of biographical sketches and sepia portraits recently published by the American Home Economics Association. More than half of those whose names appear as indicating important trends in the home economics field and outstanding professional contributions have been associated with the U. S. Department of Agriculture or the various land-grant colleges for longer or shorter periods. They include, from the scientific roll of the Department, past and present, Dr. W. O. Atwater, Caroline L. Hunt, Dr. A. F. True, Dr. C. F. Langworthy, Dr. Louise Stanley, and Helen W. Atwater; and from the colleges, Isabel Bevier, Catherine J. MacKay, Martha Van Rensselaer, Edna M. White, Mary E. Sweeny, Lita Bane, Dr. Margaret M. Justin, Alice L. Edwards, and Anna E. Richardson. The publication of this book is comparable with that of the volume of eminent American chemists sponsored by the American Chemical Society. The work of assembling the material was done by Ruth Van Deman of the Bureau of Home Economics, U. S. Department of Agriculture, who was chairman of the committee on the compilation.

Some of the earlier and most beloved of these men and women have passed away. Others are still actively engaged in important professional work, and all are nationally known. Many of our readers will no doubt be interested to know that this tribute to the personalities of these leaders has been made available. The biographical sketches are brief, entertainingly written, and correct as to facts. The sepia portraits published opposite each sketch (and removable for framing if desired) have the quality of the original photographs. The volume has a durable, attractive, brown cover, 8-1/4 x 10-1/2 inches, and is bound with adjustable binder-screws making later additions to the collection possible. It is sold for five dollars from the business headquarters of the American Home Economics Association in Baltimore.

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NEW MIMEOGRAPHED SERIALS

"The Extension Forester" is the title of a new mimeographed serial publication of the U. S. Department of Agriculture, issued by the Office of Cooperative Extension Work and the Forest Service. The series is devoted to methods, goals and results of teaching farm forestry to 4-H club members and adults. Number 1 is for October, 1929. The Office of Cooperative Extension Work is also planning to issue a new monthly mimeographed series devoted to home demonstration work, under the title "Home Demonstration Review". The first number will appear in January, 1930.

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"We have recently sent out want lists and exchange lists to various college and university libraries. We have tried to send the lists to each of the agricultural libraries. If any have not received a copy we will be glad to send one upon request. We have a good many things to offer for exchange and are already receiving quite a number of things that we want in that way.

"Our circulation department is keenly awake attempting new methods of stimulating circulation. Our branch reading collections placed in the various dormitories have been most successful. We have found that we have a coterie of readers, partly stimulated by literature courses, who read a great deal of poetry, fiction and drama, and the demand is larger than our regular budget can meet. A rental collection which supplies some of the popular books mentioned in the various book clubs, popular plays that have been running in New York, and duplicate copies, are helping to meet this demand. We have only a small rental collection at present, but the books circulate widely and many people take these in preference to waiting their turn for the regular circulation copies.

"We find quite a demand from our football men for recreational reading material to take with them when they leave on a trip for an intersectional game. Any of Ludwig's biographies, or Durant's books on modern philosophy find ready acceptance for this purpose."

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EDITOR'S NOTE

This issue of Agricultural Library Notes completes volume 4. The editor wishes to apologize for the delay in its issuance which has been due largely to extra work in the U. S. Department of Agriculture Library during the past three months, but also in part to the fact that little material for inclusion has been received from the cooperating libraries. The original plan was to publish Agricultural Library Notes monthly, with the exception of the summer months; making ten numbers for the year. This plan was carried out in volume 1 but in volume 2 there were only eight numbers, in volume 3, six numbers, and in volume 4 only five numbers. It will be apparent therefore that the number is gradually decreasing, indicating a vanishing point within a short time if the present tendency continues. This brings up two questions: (1) Is there a definite desire on the part of the readers of Agricultural Library Notes that its publication be continued: (2) If it is continued, should the frequency of issue be changed from monthly to either bi-monthly or quarterly? In order to get definite answers to these questions there is enclosed with this issue a questionnaire which it is hoped will be filled out and returned by all libraries and individuals who are now receiving Agricultural Library Notes. In addition to the questions noted above, the questionnaire asks for information as to the kind of material which it is desired that Agricultural Library Notes should include if it is continued. Suggestions of this kind will be most helpful. A prompt return of the questionnaire will be much appreciated.

The special attention of agricultural librarians is called to the Report of the Agricultural Experiment Stations, 1928, (accompanied by a list of publications of the stations, 1927-28), which was issued by the Office of Experiment Stations of the U. S. Department of Agriculture in October. It is believed that they will find it most helpful in their work to read this report from cover to cover. It relates to the progress of the system of agricultural experiment stations in the United States and some of the problems of their organization and administration. The Federal appropriations for the stations provided by the Hatch, Adams, and Furnell acts have nearly trebled during the last four years and in the same period the State appropriations have increased about 50 per cent, making the total annual income of the stations last year about \$15,000,000 of which the Federal Government furnished \$3,480,000. The following quotations from the report on the magnitude of the enterprise are of special interest: "Agricultural experimentation and research as represented by the experiment stations has reached enormous proportions. Not only is the system the most extensive and far-reaching one ever built up for agricultural inquiry; it is the largest organized effort for research in any branch of science or industry. And it is still a growing enterprise. The development to the present magnitude is a reflection of the great confidence in the power of research, especially when it is organized and is directed to the vital problems of the industry in their local and national aspects. The broad and extremely varied nature of these problems as presented by the wide extent of the country, and the fundamental relations of these problems to the ability of the industry to cope with and adjust itself to changed conditions, are an irresistible challenge to administrative officers and workers alike. And the confidence so abundantly evidenced by Federal and State appropriations and by the provision of modern buildings and other needed facilities, presents a responsibility for the effective organization and administration of this great enterprise which no one in authority can fail to realize."

The following quotations from the paragraphs on "cooperation and coordination" have a message for librarians as well as for scientific workers: "Cooperation and correlation imply a division of the field on large or complex problems. Many of the subjects needing more intensive and comprehensive study reach beyond the boundaries of separate departments or the purview of specialists in them. They involve a determination of what is embraced in them and provision for carrying forward the essential parts. Other subjects apply to such wide territory and diverse conditions that to understand them calls for concerted action on a coordinated plan. Research involves both analysis and synthesis. The analysis comes first, in laying out the line of approach, to avoid the effort being fragmentary and one-sided and failing to take account of relationships of parts to one another and to the whole. Analysis is preparatory to a division of the field and coordination of effort which will keep the primary objective in view. There may be as much opportunity for initiative and independence of effort of participants in their respective lines as if there were no correlation, but if the common end toward which all are endeavoring to make a contribution is kept in view, the combined contribution may be increasingly larger and more significant."

MISCELLANY

"Two years ago Mrs. Mortimer J. Fox, a member of the Horticultural Society of New York, decided that there should be a center for research workers and gardeners in this State to get authentic information. She interested members of the society and succeeded with their help in starting a Horticultural Library at 598 Madison Avenue. The library has many modern and up-to-date books and it has a collection of rare books from over the sea on plants of different countries. These have colored plates and some of them are very old and valuable. In the two years that the library has been open, not only have owners of large estates and people actively engaged in horticultural activities gone there for information, but artists, writers, teachers, students, and travelers visit it regularly." (Publishers' Weekly, Oct. 5, 1929)

"The University of Minnesota has purchased the apicultural library of the Reverend Francis Jager, St. Bonifacius, Minnesota. This is one of the most complete collections of books and periodicals pertaining to bee-keeping that has been gathered together in this country. It is particularly rich in the number of old and rare German works." (Science, Oct. 11, 1929)

Miss A. L. Shaw, Librarian of the Department of Agriculture, Ottawa, Canada, writes that they expect to move into the new Confederation Block during 1930 and are looking forward to having new steel stacks and much more space. At the present time the library occupies seven rooms. It has only 20,000 volumes accessioned but this represents only one quarter of the library.

The Meredith Publishing Company has recently issued a publication with the title "A Deskbook of Style," which is to be used as a guide, or reference work, in the editing of the Meredith publications. Among the things covered are capitalization, punctuation, hyphenation, compounding, spelling, proofreading marks, copy-editing marks, and the use of figures.

Mrs. Linda E. Landon, Librarian of the Michigan State College, has recently furnished the Library of the U. S. Department of Agriculture with a list of the periodical holdings of that library. This is the first contribution from any of the state agricultural college libraries toward a union list of the periodical holdings of these libraries, to be filed in the U. S. Department of Agriculture Library. This matter was discussed at the meeting of the Agricultural Libraries Section in June, 1929.

The Stratford Company, publishers of "Lilies of Eastern Asia", by Ernest H. Wilson, have informed us that the new edition issued in 1929 differs from the last edition only by the addition of five new illustrations.

The Kentucky University and Station has a comprehensive building program under way. Among the buildings now being constructed is the University Library building, to cost about \$1,000,000, for which ground was broken in June.

Dr. Edwin West Allen, associated with the work of the Office of Experiment Stations of the U. S. Department of Agriculture since 1890 and Chief since 1915, died suddenly in Chicago, November 11, while awaiting the convention of the Association of Land-Grant Colleges and Universities. An editorial account of his life and services appeared in the December issue of the Experiment Station Record. "By a tragic coincidence, one of Doctor Allen's immediate duties at Chicago was to have been the presentation of a memorial address in honor of his life-time friend and coworker, the late Dr. A. C. True. For considerably more than a generation they had labored side by side for the upbuilding through the State experiment stations of a strong national system of agricultural research. Parted by the hand of death for a few months only, they have again been linked together in men's minds in an association comparable to the historic partnership of Lawes and Gilbert at Rothamsted." Doctor Allen always took a special interest in the libraries of the agricultural colleges and stations and in the Library of the Department. His helpful advice and support will be sadly missed.

Miss Lucia Haley, Assistant Librarian of the Oregon State Agricultural College, is on sabbatical leave, studying abroad and doing special work in languages and bibliography. The first half of the year is to be spent at the University of Grenoble in southern France. After the first of January she will go with the history class to Rome for a month or six weeks of study and then she expects to spend the remainder of her time in one of the German universities. She will probably visit Washington, D. C., New York, and Boston before returning to the College.

Miss Dorothy St. John Manks, Librarian of the Massachusetts Horticultural Society, visited the Library of the U. S. Department of Agriculture for several days in December to examine its catalogues and indexes preparatory to undertaking some special bibliographical work at the Massachusetts Horticultural Society Library.

Miss Grace Bischof, formerly reference librarian of the University of Wyoming Library, has been appointed librarian of the New York Horticultural Society Library.

Miss Mary E. Marks has been appointed librarian at the University of Wyoming to succeed Miss Reba Davis who resigned to be married.

Miss Mary B. Day, formerly librarian of the National Safety Council Library, has been appointed librarian of the Museum of Science and Industry which supersedes the Rosenwald Museum in Chicago.

Miss Leda Wadsworth and Miss Ruby M. Wilson have recently been added to the staff of the U. S. Department of Agriculture Library. Miss Wadsworth was formerly with the Carnegie Library, Ogden, Utah, and Miss Wilson with the Evansville Public Library, Evansville, Indiana.

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BIBLIOGRAPHIES

British and Irish Writers on Agriculture. Compiled by W. Frank Perkins. 142 p. Lymington, Eng., Chas. T. King, 1929.

A bibliography of about 1300 British and Irish writers on the agriculture of the United Kingdom, from the earliest printed books until and including the year 1900. Included are books on agricultural chemistry, botany, grasses, weeds, drainage, improvements, weights, and measures.

Index Londinensis to Illustrations of Flowering Plants, Ferns and Fern Allies: being an amended and enlarged edition continued up to the end of the year 1920 of Pritzel's Alphabetical Register of Representations of Flowering Plants and Ferns, compiled from botanical and horticultural publications of the XVIIIth and XIXth centuries. Prepared under the auspices of the Royal Horticultural Society of London at the Royal Botanic Gardens, Kew, by O. Stapf. Vol. I. 547 p. Oxford, Clarendon Press, 1929.

Commercial Canning Since 1925. A selected bibliography submitted as one of the requirements for the diploma of the Library School of the University of Wisconsin. By Loucile Ann Crist. 11 p. Thesis. Madison, University of Wisconsin. 1929.

The following bibliographies and indexes have recently been prepared in the U. S. Department of Agriculture:

Crop reports containing statistics by counties. Comp. by Esther M. Colvin, Library, Bureau of Agricultural Economics. 5 p. Typewritten. May be borrowed for copying.

Index to Farmers' Bulletins No. 1001-1500. Comp. by Mabel G. Hunt, Head Indexer, Officer of Information.

List of entomological publications of personnel of cereal and forage insect investigations, U. S. Bureau of Entomology, 1904-1928, inclusive. Comp. by J. O. Wade, Bureau of Entomology. 46 p.

Marketing citrus fruits; selected references supplementary to section on citrus fruits in Miscellaneous Circular No. 35. Comp. by M. I. Herb, Library, Bureau of Agricultural Economics. Typewritten. May be borrowed for copying.

The strawberry industry in the United States; a selected list of references on the economic aspects of the industry. Comp. by Esther M. Colvin, under the direction of Mary G. Lacy, Librarian, Bureau of Agricultural Economics. 52 p. (Agricultural Economics Bibliography No. 28)

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Below is the list of the first fifteen books a rural minister should own for his working library. At least, that is the opinion of a goodly number out of one hundred and fifty persons who were asked to give their preferences, "having in mind the various phases of ministerial interests and technic." This expression of opinion is worth while. Two or three decades ago, at the time of President Roosevelt's Country Life Commission, the literature of country life was almost nil. Now books are coming off the press daily. Hence this attempt to secure the opinion of three different groups of country life specialists, of agricultural college men and university professors, of denominational field men and efficient rural ministers. This is a composite list given in order of preference.

- 1. The Story of John Frederick Oberlin. Beard (Pilgrim Press).
- ✓ 2. Rural Life. Galpin (Century). *1928*
- 3. Elements of Rural Sociology. Sims (Crowell).
- 4. United Churches. Hooker (Doran).
- 5. Tested methods in Town and Country. Brunner (Doran).
- 6. Churches of Distinction. Brunner (Doran).
- ✓ 7. Evolution of a Country Community. Wilson (Pilgrim Press).
- ✓ 8. Rural Social Problems. Galpin (Century).
- ✓ 9. The Farmer and His Community. Sanderson (Harcourt-Brace).
- 10. Steeples Among the Hills. Hewitt (Abingdon).
- ✓ 11. Town and Country Churches in U. S. Morse-Brunner (Doran).
- ✓ 12. The Farmer's Church. Wilson (Century).
- ✓ 13. American Agricultural Villages. Brunner (Doran).
- ✓ 14. Handbook of Social Resources. Landis (University of Chicago). *Rural (?)*
- 15. Our Tempted Hills. Felton (M. E. M.). *Native (?)*

The following books have the same number of votes for what would be number sixteen: *Rural Sociology*. Taylor (Harpers); *Constructive Sociology*. Gillette (Macmillan); *Surveying Your [Own] Community*. Brunner (Doran).

✓ Six other books get equal mention, for a possible number seventeen: *Introduction to Agricultural Economics*. Yoder (Crowell); *Sociology of Rural Life*. Hawthorn (Century); *The Holy Earth*. Baily (Comstock); *The Little Town*. Douglass (Pilgrim Press); *These Changing Times*. Eastman (Macmillan). *— Extract from Rural America, v. 8, no. 1, January 1930*

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Interlibrary loans of the U. S. Department of Agriculture Library during the past year totaled 2,578. They were made to every state with two exceptions, the largest number ^{being} sent to New York State.

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NEW BOOKS

Future Farmers in Action. A brief study of the desirable cooperative relationships among young men preparing for farming occupations. By Arthur Kendall Getman, Chief, Agricultural Education Bureau, New York State Department of Education. 115 p. New York, John Wiley & Sons, 1929.

Agriculture for Rural Teachers. By Thomas Carson McCormick, Professor of Sociology, East Central State Teachers College, Ada, Oklahoma. 388 p. New York, The MacMillan Company, 1929.

This text is the result of six years' experience of the author in teaching agriculture and rural social science to teachers in training at the East Central State Teachers College, Ada, Oklahoma.

Agriculture in Illinois during the Civil War Period, 1850-1870. By Russell Howard Anderson. 7 p. Urbana, Univ. of Ill., 1929.

An abstract of a thesis submitted in partial fulfillment of the requirements for the degree of Doctor of Philosophy in History in the Graduate School of the University of Illinois.

Agriculture in the Chicago Region. By Edward A. Duddy, University of Chicago. 158 p. University of Chicago Press, [1929.]

"This study was undertaken as a part of the general program of community research being carried on by the Local Community Research Council of the University of Chicago, acting in cooperation with the Chicago Commonwealth Club and the Chicago Regional Planning Association. It provides the most accurate and detailed information yet gathered on the agricultural use of land in a metropolitan area."

A Text-Book of Tropical Agriculture. By Sir Henry Alford Nicholls, revised by John Henry Holland. 2d rev. ed. 639 p. London, MacMillan & Co., 1929.

The original book was written in 1892.

The Crop-Grower's Companion. By John Porter, Head of the Agricultural Education Department and Lecturer in Agriculture under the Bucks County Council. 447 p. London, Gurney and Jackson, 1929.

"The author has felt, for some time, that there was a real need for a comprehensive, yet moderately sized, book which would be helpful to growers of crops in general. The present volume is an attempt to meet this need, so far as the various problems connected with the production of crops are concerned...Further, this book is intended to be complementary to the "Stockfeeder's Companion", so far as general agriculture is concerned." (Author's Preface)

Sweet Potato Production and Handling. By H. C. Thompson, Professor of Vegetable Gardening, Cornell University, formerly Horticulturist, United States Department of Agriculture. 127 p. New York, Orange Judd Publishing Company, Inc., 1929.

Practical Vegetable Culture. A Practical treatise aimed particularly to help the home gardener, vocational student, 4-H Club boys and girls and all beginners or learners. By Albert E. Wilkinson, Professor of Vegetable Gardening, Extension Service, Connecticut Agricultural College, Storrs, Connecticut. 300 p. il. New York, A. T. De La Mare Company, Inc., 1929.

Orchard and Small Fruit Culture. By E. C. Auchter, Principal Horticulturist in Charge of Horticultural Crops and Diseases, United States Department of Agriculture, and H. B. Knapp, Director, State Institute of Applied Agriculture, Farmingdale, L. I., N. Y. 584 p. il. New York, John Wiley & Sons, Inc., 1929.

The following is from the authors' preface: "This volume is prepared primarily for use in the undergraduate courses in deciduous fruit growing in colleges of agriculture. Management problems which confront fruit growers and actual directions for performing many of the operations have been given careful attention, however, and it is hoped that this book will be of real value to growers of fruit".

How to Grow Fine Flowers. An illustrated treatment of the practical processes of raising ornamental growing things, based on active contact, amateur and professional, with the growing field. By E. H. and R. T. Wilson. 211 p. il. Omaha, Nebraska, Ralph Printing Company, 1929.

"It is believed that the reader will find here, gathered into one place, enough information, instruction and practical advice, based on actual experience in the growing field, to start him surely on the path of successful flower growing with reasonable assurance of keeping on it." (Authors' foreword)

Hardy Perennials. A brief treatise on the practical processes of raising ornamental hardy perennials. By E. H. and R. T. Wilson. 102 p. il. Omaha, Neb., Ralph Printing Co., 1929.

How to Grow Roses. By Robert Pyle, J. Horace McFarland, and G. A. Stevens. 17th rev. ed. 210 p. New York, The MacMillan Company, 1930.

"Essentially a new book, for it has been entirely rewritten, as well as provided with an unusual richness of illustration. The author of the earlier editions has associated with himself in this edition two men who have worked hand in hand with him for a dozen years in building the American Rose Society into a country-wide, even a world-wide, organization of rose-lovers actuated by its motto, 'A rose for every home, a bush for every garden.' In this work they have come into contact with amateur rose friends all over the world, and it is the reflection of the resulting experiences that is embodied in this new-old book." (Introduction)

NEW BOOKS (Cont'd)

Lily Pools and Rock Gardens. By E. H. and R. T. Wilson. 104 p. il. Omaha, Neb., Ralph Printing Co., 1929.

An attempt to present, in a concise form, a planting method for lily pools and rock gardens. Includes general directions on construction, descriptions of the plants and flowers useful for pool and rock growth, schemes of arrangement supplemented by planting lists for particular locations and conditions, planting and growing instructions.

Permanent and Temporary Pastures. By Martin J. Sutton, 9th edition, revised and extended by his son, Martin H. F. Sutton, in collaboration with John Percival, Professor of Agricultural Botany, University of Reading. 202 p. London, Simpkin Marshall, Ltd., 1929.

The first edition was published in 1886.

Minerals in Pastures & their Relation to Animal Nutrition. By J. B. Orr, with the assistance of Helen Scherbatoff. From the Reid Library, Rowett Research Institute, Aberdeen. 150 p. London, H. K. Lewis & Co., Ltd., 1929

Productive Sheep Husbandry. By W. C. Coffey, Dean, College of Agriculture, University of Minnesota. 2d ed., rev. by William G. Kammlade, Chief in Sheep Husbandry. University of Illinois. 479 p.

"The full revisions in this edition have been made to conform to present-day conditions." (Preface to second edition)

Milk and Milk Products. Prepared for the use of Agricultural college students. By Clarence H. Eckles, Chief, Division of Dairy Husbandry, Willes B. Combs, Professor of Dairy Husbandry, and Harold Macy, Associate Professor of Dairy Bacteriology, University of Minnesota. 379 p. il. New York, McGraw-Hill Book Co., 1929.

"A textbook of college grade on the constituents of milk, dairy bacteriology, common dairy processes, market milk, the manufacture of dairy products, dairy testing and dairy calculations."

The Book of the Goat, containing full particulars of the various breeds of goats and their profitable management. By H. S. Holmes Pagler. 6th ed. rev. and enl. 255 p. London, The Bazaar, Exchange and Mart, Ltd. 1929.

"It is now more than forty years since the enlarged (1865) edition of this book was published and it is something like a decade since the date of the revised edition which was issued while this country (Great Britain) was still involved in the Great War...To bring the present edition of this book up-to-date, the text has been revised and considerably extended with new matter." (Preface)

A to Z of Pigeons, Fancy and Utility Breeding, with Latest Standards. By E. J. W. Dietz. 154 p. il. Sellersville, Pa., Item Publishing Company, 1929.

The Shire Horse Society, 1878 to 1928. A chronicle of activities spread over fifty years in the development and encouragement of the shire horse (the great horse of England). By A. B. Charlton, Secretary. 239 p. il. London & Baccles, William Clowes & Sons, Ltd., 1929. Published in commemoration of the Jubilee of the Shire Horse Society.

Pure-Bred Dogs. The breeds and standards as recognized by the American Kennel Club, Incorporated. Edited by the following special committee of the Kennel Club; Charles T. Inglee, Chairman, Henry D. Bixby, and Harold Ober, with an introduction by Dr. J. E. De Mund, President. 315 p. il. New York, G. Howard Watt, 1929.

"For many years there has been a definite need for a book on all breeds of dogs. Several have been published but the information was inaccurate and unofficial. The American Kennel Club has authorized the publication of this volume and it is brought before the public as the only official book by which all breeds in America can be judged." (Publishers' announcement)

Commercial Rabbit Farming. By Vyvian Thomas. Ed. 3. 102 p. London, The Bazaar Exchange and Mart, Limited. n. d.

"The chief object of this book is to assist readers to breed rabbits on a commercial scale."

Practical Muskrat Raising. Gives methods of raising, both under natural conditions and in pens, fencing, feeding, diking, ditching, dam building, shipping stock, etc. By E. J. Dailey. 134 p. il. Columbus, Ohio, A. R. Harding, 1927.

Marketing Purebred Livestock. By M. N. Beeler. 393 p. il. New York, The MacMillan Company, 1929.

"The purpose of this book is to stimulate a wider distribution of purebred livestock. Such distribution is desirable because animal efficiency is one of the important factors in profitable farm operation. And an adequate farm income is necessary to a satisfactory farm life. That income, farm experience indicates, can best be assured by livestock production of some kind. So the desirability of efficiency in animals is apparent. Responsibility for improving the races of domestic animals rests with the breeder. Also he is responsible, directly and indirectly, for distribution of his product. Therefore, emphasis has been placed in the discussions upon the financial advantages that accrue from better marketing methods." (Author's preface)

Wayside Marketing. By Schuyler Arnold. 123 p. il. New York, A. T. De La Mare Company, Inc., 1929.

NEW BOOKS (Cont'd)

Selling Mrs. Consumer. By Mrs. Christine Frederick, Founder and Director Applecroft Home Experiment Station, Greenlawn, Long Island; counsellor to manufacturers on marketing home goods; author of "The New Housekeeping" 405 p. il. New York, The Business Bourse, 1929.

"A hundred thousand anxious business eyes are upon Mrs. Consumer, and the number of these eyes increases every time that a business man or a farmer becomes intelligent enough to really understand the machinery of production and distribution. The least understood thing in the entire chain of economics today is consumption and consumers. 'Consumptionism' is the name given to the new doctrine; and it is admitted today to be the greatest idea that America has to give to the world; the idea that workmen and the masses be looked upon not simply as workers or producers, but as consumers. Pay them more, sell them more, prosper more is the equation. It is with the hope that a lifetime of work, study and experience in just these matters may make an interesting mutual common ground, that I have written this book." (From First Chapter)

How Great Cities are Fed. By W. P. Hedden, Chief, Bureau of Commerce, The Port of New York Authority. 302 p. il. New York, D. C. Heath & Company, 1929. (Agricultural Commerce and Administration Series, edited by E. G. Nourse, Director of the Institute of Economics)

"Suggested reading list": p.287-291.

Economic Principles of Consumption. By Paul H. Nystrom, Professor of Marketing, School of Business, Columbia University. New York, The Ronald Press Company, 1929.

Presents a study of the consumers of this country, geographically and by ten standard-of-living groups, traces recent changes in consumer demand and shows the directions or trends of these changes.

Economic Resources and Industries of the World. By Isaac Lippincott, Professor of Economic Resources in Washington University. 656 p. il. New York, D. Appleton and Company, 1929.

"A comprehensive survey of the distribution and production of the staple commodities of the world and of the industries based upon them" (Publishers' announcement)

Small Towns. An Estimate of their Trade and Culture. By Walter Burr, Professor of Rural Sociology, University of Missouri. 267 p. New York, The MacMillan Company, 1929.

"This is a study of the hundred thousand small towns in America and of the people who live in them, who do their trading there, support their schools, churches, and social organizations...The author traces briefly the historical background of the American rural community, describes in detail its present status with respect to culture, trade, education, government, and the church, and presents his estimates." (Publishers' announcement)

Too Many Farmers. The Story of What is Here and Ahead in Agriculture.

By Wheeler McMillen, with foreword by William M. Jardine, former U. S. Secretary of Agriculture. 340 p. New York, William Morrow & Company, 1929.

"In a period when agriculture is undergoing many violent and fundamental changes, it is especially vital that we maintain a clear conception of the objectives. We need to understand the probable effect of these changes upon our whole national life. We need to see clearly the consequences to the people who are engaged in farming. This is a time for taking a new look at the old ideas, long accepted as truth, and for appraising them in the light of new facts. The world has long since learned that something once true may with the passing of time and change of conditions cease to be true at all. Agriculture, being perhaps the oldest of human occupations, may be peculiarly likely to suffer from static thinking, because habits of thought concerning it have had so long in which to become set. Farming is becoming increasingly a commercial occupation competing for place in a commercial world. Rising standards of rural living, increased use of power and mechanical equipment, and vastly more abundant contact with urban affairs will tend to require that farmers place more emphasis than ever before upon cash income. The differences between country and city people are rapidly fading.... With so much happening in agriculture this is a particularly timely period for a book such as this. Farmers themselves, workers in the general field of agriculture, business men immediately concerned in agricultural matters, and citizens who read to obtain an intelligent understanding of their country's affairs will find here a vivid statement of one man's viewpoint of the present and future of farming."

(Foreword)

The Land, Agriculture and National Economy. By Christopher Turnor, with a foreword by Lord Bledisloe. 80 p. London, John Lane the Bodley Head, Ltd., 1929.

Three lectures delivered recently by the author at Rugby.

Cooperative Marketing of Agricultural Products. By Newel H. Comish, Professor of Economics and Sociology in the School of Commerce of the Oregon State College. 479 p. New York, D. Appleton and Company, 1929.

"The book is largely confined to cooperative marketing in the United States, because of the author's belief that cooperative marketing in this country is a sufficiently large and distinctive field to demand separate treatment.

The Folk High Schools of Denmark and the Development of a Farming Community.

By Holger Begtrup, Frederiksberg Folk High School, Hans Lund, Rødding Folk High School and Peter Manniche, International People's College, Helsingør, with an introduction by Sir Michael Sadler, Master of University College, Oxford. New edition. 176 p. il. Oxford University Press, Humphrey Milford, London, 1929.

"Two years have passed since the first edition was published. The intermediate period has made some alterations necessary and a few more illustrations have been added." (Author)

NEW BOOKS (Cont'd)

Forestry, a Study of its Origin, Application, and Significance in the United States. By Arthur B. Recknagel, Professor of Forest Management and Utilization, Cornell University, and Samuel N. Spring, Professor of Silviculture in Cornell University. 292 p. il. New York, Alfred A. Knopf, 1929.

"The purpose of the book, as the subtitle suggests, is to present a study of the origin, application, and significance of forestry in the United States. The approach is historical, economic, and objective, designed to give the reader a general grasp of the forestry problem." (Authors' preface)

Forestry in Sweden and Adjacent Lands, from the Viewpoint of an American Forester. By George Sargent Perry, Forestry Fellow, American-Scandinavian Foundation, Professor of Silviculture and Dendrology, Pennsylvania State Forest School, Department of Forests and Waters, Mont Alto, Pa. 276 p. il. Published by the Author, 1929.

The Life of George Chaffey; a Story of Irrigation Beginnings in California and Australia. By J. A. Alexander. With a foreword by The Rt. Hon. Stanley Melbourne Bruce, ... Prime Minister of Australia; an Introduction by Dr. Elwood Mead, Commissioner of the United States Bureau of Reclamation ... and a Chapter on the Imperial Valley by H. T. Cory...382 p. il, Melbourne, MacMillan & Co., Ltd., 1928.

George Chaffey was one of the master irrigation engineers of Western America. He was also the founder of scientific irrigation in Australia. This work gives the human-interest side of the romance of irrigation in California and America.

The Day of the Cattleman. By Ernest Staples Osgood. 283 p. il. Minneapolis, University of Minnesota Press, 1929.

"To Many Americans 'the West' is still the land of the unfenced range, the cattleman and the cowboy. Although the last great range herd followed the buffalo and the Indian beyond the horizon years ago, our last frontier lives on in the popular imagination...But the range cattleman has more solid achievements to his credit than the creation of a legend. He was the first to utilize the semi-arid plains. Using the most available natural resource, the native grasses, as a basis, he built up a great and lucrative enterprise, attracted eastern and foreign capital to aid him in the development of a new economic area, stimulated railroad building in order that the product of the ranges might get to an eastern market, and laid the economic foundations of more than one western commonwealth. This is the story that I have endeavored to tell in the following pages." (Author's Preface)

Audacious Audubon. The story of a great pioneer, artist, naturalist, and man. By Edward A. Muschamp. 312 p. il. New York, Brentano's, 1929.

NEW BOOKS (Cont'd)

The World's Grasses, Their Differentiation, Distribution, Economics and Ecology. By J. W. Bews, Professor of Botany in the Natal University College, Pietermaritzburg. 408 p. London and New York, Longmans, Green & Co., 1929. Bibliography: p. 363-383.

Botanical Essays. By Willard N. Clute. 112 p. Indianapolis, Ind., Willard N. Clute & Co., 1929.

The following is from the author's preface: "A few years ago, the Editor of the 'Gardeners' Chronicle' of America asked me to write a series of non-technical articles on the interesting features of plant life for publication in his journal... The favorable reception given these brief essays by the public to which they were addressed seemed to indicate that a selection from them, if made into a book, might interest a larger audience. Accordingly I have gathered a score or more of those most likely to have a wider appeal to the public, for inclusion in this little volume".

The Plant in Relation to Water. A Study of the physiological Basis of Drought Resistance. By N. A. Maximov, Professor in the Institute of Applied Botany, Leningrad. Authorized English translation, edited, with notes, by R. H. Yapp, Mason Professor of Botany in the University of Birmingham. 451 p. il. London, George Allen & Unwin, Ltd., 1929.

The present English edition differs in certain respects from the original Russian edition published in 1926.

Our Wild Orchids. Trails and Portraits. By Frank Morris and Edward A. Eames, with foreword by Oakes Ames, Professor of Botany in Harvard University. 464 p. il. New York, Charles Scribner's Son, 1929.

"The book has been written to fill the need the authors felt when they began their quest of orchids fifteen years ago - for something (beyond the dry scientific descriptions, all that was then in print) really usable. It is a complete gallery of one of our most important and fascinating wild flowers, with full information of their appearance, range, season, habitat, and plant companions. Both Scientist and amateur will find it practical, and the lover of outdoors in general will find it one of the few and memorable nature books that has fixed in its pages the spirit of the wild." (Publishers' announcement)

Flowers and Flowering Plants. An introduction to the nature and work of flowers and the classification of flowering plants. By Raymond J. Pool, Chairman, Department of Botany, University of Nebraska. 378 p. il. New York, McGraw-Hill Book Co., 1929.

Icones Farlowianae. Illustrations of the larger fungi of Eastern North America. By William Gilson Farlow, with descriptive text by Edward Angus Burt, 120p. Cambridge, Massachusetts, The Farlow Library and Herbarium of Harvard University, 1929. The volume has 103 colored plates.

"One of the aims of the author in preparing the present work has been to furnish to those who are not in the possession of large libraries and collections the means of identifying the more striking and characteristic of our larger fungi". (Author's Preface)

NEW BOOKS (Cont'd)

Practical Queen-Rearing. By Frank C. Pellett, Associate Editor American Bee Journal. 4th rev. ed. 103 p. Hamilton, Illinois, American Bee Journal, 1929.

"Some changes have been made and some new material added to bring the book fully up to date. Some new illustrations are used but in the main the material remains as in former editions." (Author's preface)

The Practical Bee Guide, a Manual of Modern Beekeeping. By the Rev. J. G. Digges, Chairman, Examining Board, Irish Beekeepers' Association. 6th rev. ed. 306 p. London, Simpkin, Marshall, Hamilton, Kent & Co., 1929.

In this 6th edition, the Guide has been "revised, rewritten and reset, and brought completely up to date." The previous edition contained 260 pages.

Poultry Diseases, including diseases of other domesticated birds, with chapters on the anatomy and physiology of the fowl. By B. F. Kaupp. Head of Poultry Department, North Carolina State College. 5th ed. rev. and enl. 436 p. Chicago, Alexander Eger, 1929.

The 4th Edition contained 393 pages.

The Prevention of Human Tuberculosis of Bovine Origin. By William G. Savage, County Medical Officer of Health, Somerset. 195 p. London, MacMillan and Co., Limited, 1929.

The Immunology of Parasitic Infections. By William H. Taliaferro, Professor of Parasitology, The University of Chicago. 414 p. New York, The Century Co., 1929.

"A compilation, and as far as possible, an evaluation of the mass of immunological work that has been done on infections with animal parasites." (Preface) Bibliography: p. 311-386.

The Veterinary Adviser. By A. S. Alexander, Professor of Veterinary Science, College of Agriculture, University of Wisconsin. 128 p. il. New York, Orange Judd Pub. Co., 1929.

"It has been the aim of the author in preparing this handy reference veterinary book to suggest sensible methods of preventing disease which might well be adopted by every owner of livestock and, further, to prescribe simple treatment for the more common ailments of animals." (Author's Introduction)

Judging Poultry. By Harry M. Lamon, President, and Jos. Wm. Kinghorne, Secretary-Treasurer, National Poultry Institute. 107 p. il. Washington, D. C., The Authors, 1929.

Microbiology. By Benjamin F. Lutman, Professor of Plant Pathology, University of Vermont. 495 p. il. New York, McGraw-Hill, 1929.

NEW BOOKS (Cont'd)

The Agricultural Zoology of the Malay Archipelago. The animals injurious and beneficial to agriculture, horticulture and forestry in the Malay Peninsula, the Dutch East Indies and the Philippines. By K. W. Dammerman, Director of the Zoological Museum and Laboratory, Buitenzorg, Java. 473 p. il. Amsterdam; J. H. de Bussy Ltd., 1929.

"This book is in the main an English edition of the author's work 'Landbouwdeirkunde van Oost-Indie' published in 1919 and written in Dutch. As the Dutch edition was restricted to the agricultural pests of the Dutch East Indies, a mere translation of the book would have found only a moderate number of readers abroad; it was therefore decided to enlarge the scope of the work and to extend its domain to neighboring countries with faunas almost identical with that of the Dutch East Indies, at least so far as pests are concerned." (Author's Preface)

The Problems of Applied Entomology. By Robert A. Wardle, Professor of Zoology, University of Manitoba. 587 p. il. New York, McGraw-Hill Book Company, 1929.

"The first part of this book may be regarded as supplementary to the work entitled 'Principles of Insect Control' by the late Philip J. Buckle and myself, published in the year 1923, and with certain exceptions of historical, bibliographical, or resumptive importance, cognizance has only been taken of entomological work which has appeared since 1922... The second part of the book breaks new ground in that it attempts to present to the entomologists of any one country some conception of the problems which face his confreres in other countries..." (Author's preface)

A Handbook of the Mosquitoes of North America. Their structure, how they live, how they carry disease, how they may be studied, how they may be controlled, how they may be identified. By Robert Matheson, Professor of Entomology, New York State College of Agriculture, Cornell University. 268 p. il. Springfield, Ill., Charles C. Thomas, 1929.

"It is the object of the present handbook to present as concise an account as possible of the species occurring in North America, to summarize their life-histories, habits, breeding habitats, their relation to our own welfare, and to discuss the problem involved in any attempt at their reduction..." (Author's preface)

Home Pests and Their Destruction. By J. S. Bainbridge. 94 p. il. London, William Heinemann, 1929.

Expanded from articles contributed to New Health, The Quiver, and the Woman's Pictorial.

Insects, Ticks, Mites and Venomous Animals of Medical and Veterinary Importance. Part I. Medical. By Walter Scott Patton, Dutton Memorial Professor of Entomology, Liverpool University, and Alwen M. Evans, Lecturer on Entomology, Liverpool School of Tropical Medicine. 786 p. il. Croydon, England, H. R. Grubb, Ltd., 1929.

NEW BOOKS (Cont'd)

The Science of Nutrition Simplified, a Popular Introduction to Dietetics.

By D. D. Rosewarne, late honorary Acting-Therapeutist and Assistant Physician, City of London and East London Dispensary. 314 p. St. Louis, The C. V. Mosby Company, 1929.

"The object of this book is to provide the ordinary person who has little or no scientific knowledge, with a simple but complete statement of everything that is necessary for a proper understanding of questions of diet." (Introduction)

Feeding the Family. By Mary Swartz Rose, Professor of Nutrition, Teachers College, Columbia University. 3d ed. 459 p. il. New York, MacMillan, 1929.

Breadmaking: Its Principles and Practice. By Edmund B. Bennion, Head of the National Bakery School, Borough Polytechnic, London. 251 p. il. London, Oxford University Press, 1929.

In this book "an attempt has been made to add a volume to trade literature which will in some measure help to fill the gap which up to now has existed between the small works dealing with general principles and the advanced treatises on the subject of breadmaking and cereal chemistry." (Author's preface)

The Newer Knowledge of Nutrition. The use of foods for the preservation of vitality and health. By E. V. McCollum and Nina Simmonds. 4th rev. ed. 594 p. New York, The MacMillan Company, 1929.

Brings the subject up to date from the standpoint of fundamental research.

The Most Nearly Perfect Food: The Story of Milk. By Samuel J. Crumbine, General Executive, American Child Health Association, and James A. Tobey, Author the Quest for Health, The National Government and Public Health, Public Health Law, etc. 292 p. il. Baltimore, Williams & Wilkins Company, 1929.

The following is from the author's preface: "Since there was no modern text devoted entirely to a popular presentation of all of the interesting phases of this one nearly perfect food, the authors felt justified in preparing this volume on the history, production, practical use, sanitation, and dietary functions of milk and its products."

Trends and Needs in Home Management. An analytical study of home management in higher institutions in order to ascertain trends and to formulate policies. By Helen Elizabeth Judy. (Thesis) 128 p. New York, Teachers College, Columbia University, 1929.

Textile Fibers, Yarns, and Fabrics. By Helen A. Bray, Assistant Professor of Textiles and Clothing, College of Industrial Arts, The Texas State College for Women. 236 p. il. New York, The Century Co., 1929.

"The material presented is the result of years of work in developing a practical course in the teaching of textiles in colleges." (Author's preface)

OFFERS

The U. S. Department of Agriculture Library has for exchange the following publications.

Books

Allen, R. L. New American farm book. New ed. rev. and enl. New York, 1883.

Alley, H. The bee-keepers' handy book. Wenham, Mass., 1883.

Arnold, L. B. American dairying. Rochester, N. Y., 1876.

Ashmead, W. H. Orange insects, a treatise on the injurious and beneficial insects found on the orange trees of Florida. Jacksonville, Fla., 1880.

Bailey, J. M. Blood of ensilage, or the new dispensation for farmers. Farmers' ed. New York, 1881.

Ball, S. H., and Smith, A. F. The geology of Miller County. Jefferson City, Mo., 1903. (Missouri bureau of geology and mines, ser. 2, v. 1)

Bouchereau, L. Statement of the sugar and rice crops made in Louisiana. 1879/70, 1870/71, 1872/73, 1874/75, 1879/80, 1881/82, 1883/84. New Orleans, 1870/84.

Bright, J. J. and Co. New Orleans price current yearly report of the sugar and rice crops of Louisiana. Crop year 1877-78. New Orleans, 1878.

Brill, F. Farm gardening. New York, [c1872].

Bruckner, W. H., and Chynoweth, J. B. American manures and farmers' and planters' guide. Philadelphia, 1871.

— 1872.

Chapman, J. B. The grape grower's guide. Elizabethtown, Ky., 1875.

Chase, C. T. The prairie fruit culturist. Chicago, 1859.

Clok, H. Diseases of sheep explained and described. Philadelphia, 1868.

Cronise, T. F. Natural wealth of California. San Francisco, 1868.

Uzapek, F. Biochemie der pflanzen. 2 v. Jena, 1905.

Downing, C. Selected fruits: from Downing's Fruits and fruit trees of America. New York, 1871.

Ellsworth, H. W. The American swine breeder, Boston, 1840.

French, H. F. Farm drainage. New York, 1859.

Fulton, J. A. Peach culture. New York [c1870].

— New rev. and enl. ed. New York, 1889.

Harris, J. Harris on the pig. New York, 1870.

Helm, H. T. American roadsters and trotting horses. Chicago, 1878.

Henderson, P. Gardening for pleasure. New York [c1875].

Hewitt, R. Coffee, its history, cultivation and uses. New York, 1872.

Hodges, L. B. The forest tree planters' manual. 2d ed. Minnesota State Forestry Ass'n. St. Paul. 1880.

Hyatt, T. H. Hand book of grape culture. ed.2. San Francisco, 1876.

Meeker, E. Hop culture in the United States. Puyallup, Washington Ter., 1883.

Murray, W. H. H. The perfect horse. Boston, 1873.

Oemler, Dr. A. Truck farming at the south. New York, 1883.

Powell, W. J. Tachyhippodamia, or the new secret for taming horses. Philadelphia, 1874.

Prime, S. T. K. The model farms and their methods. Chicago, 1880.

OFFERS
Books (Cont'd)

Roe, E. P. A manual on the culture of small fruits. Newburgh, N. Y., 1876.

Sanders, J. H. Horse breeding. Chicago, 1885.

Saunders, W. Insects injurious to fruits. Philadelphia, 1883.

Senseney, B. R. Tobacco from the seed to the ware house. Chambersburg, Pa., 1878.

Simpson, J. C. Horse portraiture. New York, 1868.

Smith, M. S. Virginia cookery book. New York, 1885.

Sturtevant, E. L., and Sturtevant, J. N. The dairy cow: a monograph on the Ayrshire breed of cattle. Boston, 1875.

Ware, L. S. The sugar beet: including a history of the beet sugar industry in Europe. Philadelphia, 1880.

White, J. J. Cranberry culture. New York, 1870.
— New ed. New York, 1885.

Willard, X. A. Willard's practical dairy husbandry. 2d ed. New York, 1872.

Williamson, J. Ferns of Kentucky. Louisville, 1878.

Herd, Flock and Stud Books

American Aberdeen-Angus herd book. v.35.

American Berkshire record. v.1.

American Duroc Jersey record, v.1.

American Jersey cattle club. Herd register of Jersey cattle. v.104, 1921/22; 109, 1924/24; 110, 1924; 111, 1925/26.

American Jersey cattle club. Register of merit of Jersey cattle. 1916/17, 1717/18.

American milk goat record. v.35.

American Poland-China record. v.77, 79.

American Short-horn Herd book. v.116, 117, 118.

American Stud book. 4th suppl. to v.13.

American Southdown record. v.2.

American Tamworth swine record association. Register. v.1, pt.1, 2; v.2; v.3, pt.1, 2.

Arab horse stud book. v.1.

Ayrshire record. new ser., v.1-2.

Blue Albion cattle society (Derby). Blue Albion cattle herd book. v.3. 1922.

Dairy Shorthorn (Coates's herd book) association. Year book, v.7, 1924; v.8, 1925; v.9, 1926; v.11, 1928.

Duroc-Jersey swine record association, authority of the National Duroc-Jersey record association. v.54, Nov. 1917; v.55, Dec. 1917.

English Guernsey cattle society's herd book. v.45.

Flock record of Hampshire Down sheep, 1919. v.17.

Gt. Brit. — Ministry of agriculture and fisheries. Register of dairy cattle—year ended Oct. 1, 1928. v.12.

Holstein-Priesian association of American Advanced register year book. v.37, 38.

National American kennel club. Stud book. v.1.

National pig breeders association. Herd book, 1929. v. 11 (Wessex Saddle-back section).

OFFERS
Herd, Flock and Stud Books (Cont'd)

National Poland China record. v.34-42.
National sheep-breeders' Association. Report of the 28th International conference, Monday, July 8, 1929.
New Zealand Sheep breeders' association. Flock book. v.24,25.
Ohio Spanish Merino sheep breeders' association. Register, v.1.
Red Polled herd book. American series. v.38-40.
Royal Guernsey agricultural society - Alderney branch. Herd book of the Bailiwick of Guernsey - Alderney branch. v.9.
Royal Jersey agricultural and horticultural society. Agricultural department. Jersey herd book - milk records awards, 1928.
Shorthorn breeders' guide. 1923, 1926 (3 copies).
South African Angora stud register, v.3, 1928.
South Devon flock book association. Flock book, v.22-25.
Southdown flock book. v.35, 37, 38.
Spanish Merino sheep, their importation from Spain, introduction into Vermont, and improvement since introduced. A list of stock rams and their pedigrees and a register of pure bred flocks of improved Spanish merino sheep. v.1, 1879.
Welsh pony and cob society stud book. v.17.

The Library of the Pennsylvania State College offers a copy of the following:

Colman, Henry. Agriculture and rural economy from personal observation. v. 1 and 2, 6th ed., with additions. Boston, Phillips, Sampson & Co., 1857.

WANTS

The Clemson College Library, Clemson College, South Carolina, is anxious to obtain the following publications:

Reports of the U. S. Entomological Commission, nos. 1, 2 and 5. (The first report was made to the Geological Survey, the second to the Secretary of the Interior, and the fifth to the Commissioner of Agriculture)

Scudder, S. H. Nomenclator Zoologicus. (U. S. National Museum, Bulletin 19. 1882)

The Iowa State College Library wishes to obtain copies of the Union of South Africa Science Bulletin, nos. 54 and 56, which are lacking in its file of this publication.

Dr. George V. Heintz, Librarian of the Government Botanical Garden, Nikita, Yalta, Crimea, is willing to send Russian publications in exchange for back volumes of the various horticultural, agricultural, and botanical publications issued in California. He especially desires a full set of the "Fig and Olive Journal" published in Los Angeles, and the Transactions of the Fig Institute at Fresno.

SELECTED LIST OF MIMEOGRAPHED PUBLICATIONS
of the U. S. Department of Agriculture
issued during September-December, 1929, exclusive of current issues
of serials.*

List of research projects pertaining to cotton, indicating objective, estimated support, and available publications. 59 p. (Issued by the Cotton research coordination committee)

Bureau of Agricultural Economics

Attitudes toward rural government. A preliminary report. By T. B. Manny. 26 p. (Issued by Division of farm population and rural life)

Beef cattle outlook charts with explanations. 30 charts.

Buying and selling livestock by grade. By C. E. Gibbons. 9 p. (Issued by Division of Livestock, meats, and wool)

The competitive position of the dairy industry of Canada. By P. F. Brookens. 23 p. Report F. S. -40. (Division of statistical and historical research).

Directory of teachers giving courses in rural sociology and rural life. 16 p. (Issued by Division of farm population and rural life)

The disparity between wheat prices in Canada and in the United States and grain storage situation. 22 p.

Facts about eggs of value to housewives. 16 p. (Issued by Division of dairy and poultry products)

Farm tax problems as developed by research agencies. By Whitney Coombs. 10 p. (Issued by Division of agricultural finance)

Foreign trade of the United States annual, 1790-1929. Dairy cattle and dairy products. By Caroline G. Gries. 42p. Report F. S. no. 42. (Issued by Division of statistical and historical research)

Foreign trade of the United States annual, 1790-1929. Hogs, pork and pork products. By Caroline G. Gries. 65 p. Report F. S. no. 44. (Issued by Division of statistical and historical research)

Foreign trade of the United States annual, 1855-1929. Poultry and eggs. by Caroline G. Gries. 25 p. (Issued by Division of statistical and historical research)

The grape market situation, 1929, with statistical tables. 17 p. (Issued by Division of fruits and vegetables)

*For a list of the principal series issued regularly, see vol. 4, no. 142, p. 347.

SELECTED LIST OF MIMEOGRAPHED PUBLICATIONS

Bureau of Agricultural Economics (Cont'd)

List of mimeographs prepared by Grain investigations. 2 p. (Issued by Grain investigations)

List of publications prepared by Grain investigations. 2 p. (Issued by Grain investigations)

Marketing California grapes. Summary of 1928 season. By H. F. Willson and J. M. Foote. 103 p. (Issued by Division of fruits and vegetables)

Marketing of Colorado and Nebraska potatoes. Summary of 1928-29 season. By Wendell Calhoun. 33 p. (Issued by Division of fruits and vegetables)

Marketing Colorado onions. Summary of 1928-29 season. By J. D. Hamilton and Wendell Calhoun. 20 p. (Issued by Division of fruits and vegetables)

Marketing Idaho potatoes. Summary of 1928-29 season. By R. H. Lamb. 45 p. (Issued by Division of fruits and vegetables)

Marketing Michigan grapes. Summary of 1928 season. By R. H. Shoemaker. 23 p. (Issued by Division of fruits and vegetables)

Marketing Michigan peaches. Summary of 1928 season. By R. H. Shoemaker. 17 p. (Issued by Division of fruits and vegetables)

Marketing Michigan pears. Summary of 1928 season. By R. H. Shoemaker. 20 p. (Issued by Division of fruits and vegetables)

Marketing Michigan onions. Summary of 1928-29 season. By R. H. Shoemaker. 27 p. (Issued by Division of fruits and vegetables)

Marketing pecans. A preliminary report. By J. W. Park and H. E. Rutland. 55 p. (Issued by Division of fruits and vegetables)

Marketing survey of northwestern fresh prunes. By R. G. Hill. 15 p. (Issued by Division of fruits and vegetables)

Marketing Utah peaches. Summary of 1928 season. By Leonard S. Fenn. 22 p. (Issued by Division of fruits and vegetables)

Marketing western New York and Pennsylvania grapes. Summary of 1928 season. By S. W. Russell, A. L. Thomas, and L. D. Spink. 32 p. (Issued by Division of fruits and vegetables)

Marketing western New York cabbage. Summary of 1928-29 season. By S. W. Russell and A. L. Thomas. 30 p. (Issued by Division of fruits and vegetables)

SELECTED LIST OF MIMEOGRAPHED PUBLICATIONS

Bureau of Agricultural Economics (Cont'd)

Marketing western New York onions. Summary of 1928-29 season. By S. W. Russell and A. L. Thomas. 31 p. (Issued by Division of fruits and vegetables)

Marketing western New York pears. Summary of 1928 season. By S. W. Russell and A. L. Thomas. 11 p. (Issued by Division of fruits and vegetables)

Marketing western New York potatoes. Summary of 1928-29 season. By S. W. Russell and A. L. Thomas. 34 p. (Issued by Division of fruits and vegetables)

Marketing Wisconsin potatoes. Summary of 1928-1929 season. By Bryce Morris. 40 p. (Issued by Division of fruits and vegetables)

Materials found in hard red spring wheat, Durum wheat, and rye dockage. By J. H. Cox and H. E. Earp. 12 p. (Issued by Grain division)

A means of preventing surplus production. By W. J. Spillman. 10 p. (Issued by Division of farm management and costs)

Moisture content of flaxseed and its relation to harvesting, storage, and crushing. By A. C. Dillman and R. H. Black. 14 p. USGSA-GI-52. (Issued by Bureau of plant industry, Office of cereal crops and diseases, and Bureau of agricultural economics, Grain investigations)

The need of revision of areal figures of the United States by counties with tables of the areas of quadrilaterals of the earth's surface of five minutes extent in latitude and longitude. 7 p. (Issued by Division of land economics.)

New uses for cotton. By R. J. Cheatham. 6 p. (Issued by Division of cotton marketing)

Outline showing federal standardization of fruit and vegetable barrels and baskets. 3 p. (Issued by Division of fruits and vegetables)

Poultry and egg outlook charts with explanations. 25 charts.

The prune industry in Yugoslavia. By Milton J. Newhouse. A preliminary report. 34 p. Report F. S. 43.

Publications issued by the Bureau of agricultural economics. 15 p. (Issued by the Division of economic information)

Regulations of the Secretary of agriculture under the United States warehouse act of Aug. 11, 1916 as amended. Regulations for warehousemen storing nuts, approved Oct. 22, 1929. 52 p. (Issued by Warehouse division)

SELECTED LIST OF MIMEOGRAPHED PUBLICATIONS

Bureau of Agricultural Economics (Cont'd)

Some factors influencing the size of apples in the Hood River Valley, Oregon. A preliminary report. By S. R. Newell. 17 p. (Issued by Division of crop and livestock estimates)

States, counties, and crop reporting districts in the United States. Revised and corrected to Dec. 1929. 52 p. (Issued by Division of crop and livestock estimates)

Statistics and charts of the range livestock industry with special reference to seventeen western states. Comp. by R. D. Jennings. 120 p. (Division of farm management and costs)

The strawberry industry in the United States; a selected list of references on the economic aspects of the industry. Comp. by Esther M. Colvin. 52 p. Agricultural economics bibliography no. 28. (Issued by the Library)

Summary of standard tobacco grades for U. S. type 23. 4 p. (Issued by Tobacco section)

Teamwork between the Bureau of agricultural economics and the state departments of agriculture. By Nils A. Olsen. 9 p.

Test weight of wheat under different conditions of moisture and temperature of the grain, humidity and temperature of the atmosphere, and elevator dust in the grain. By J. H. Cox and H. E. Earp. 16 p. (Issued by Grain investigations)

U. S. hay grades reflect feed values for beef cattle and sheep feeding. By W. H. Hosterman. 8 p. (Issued by Hay, feed and seed division)

U. S. standards for California and Arizona grapefruit, 1929. Grades. 6 p. (Issued by Division of fruits and vegetables)

Wheat outlook charts with explanations. 28 charts.

Bureau of Entomology

List of entomological publications of personnel of cereal and forage insect investigations, U. S. Bureau of entomology, 1904-1928, inclusive. Comp. by J. S. Wade. 46 p.

Publications of the Bureau of entomology available for free distribution. Rev. to Nov. 1, 1929. 8 p. (E-24)

SELECTED LIST OF MIMEOGRAPHED PUBLICATIONS

Extension Service

Extension work in cooperative marketing. By C. W. Warburton. 7 p.
Extension service circular 117. (Issued by Office of cooperative extension work)

Foreign agricultural extension activities: Canada, England and Wales, Denmark, Austria, Poland and India. Abstracts from recent reports and publications received by J. M. Stedman. 19 p. Extension service circular 114. (Issued by Office of cooperative extension work)

Leave for professional improvement. By C. B. Smith. Extension service circular 116. (Issued by Office of Cooperative extension work)

Motion pictures released by the United States Department of agriculture. 11 p. (Issued by Office of motion pictures)

The significance of vocational training in a state program of negro education. By E. H. Shinn. 9 p. Extension service circular 113. (Issued by Office of cooperative extension work)

What local leaders do. A study of the activities of 155 local extension leaders in two Nebraska counties. By M. C. Wilson and W. H. Brokaw. 17 p. Extension service circular 115. (Issued by Office of cooperative extension work)

What the U. S. Department of agriculture is doing for the Arkansas farmer. By C. W. Warburton. 13 p.

Forest Service

Forestry facts for young folks. By Mina Owen. 16 p. (Issued by Eastern national forest district, district seven)

Bureau of Plant Industry

Avocado culture in Florida. By T. Ralph Robinson. 15 p. (Issued by Office of horticultural crops and diseases)

The Chinese tung-oil tree. By R. A. Young. 3 p. (Issued by Office of Foreign plant introduction)

A perennial lespedeza (*Lespedeza sericea*). By A. J. Pieters. 2 p. (Issued by Office of forage crops and diseases)

The poinsettia. By D. Victor Lumsden. 2 p. (Issued by Office of horticultural crops and diseases)

Review of the literature on pollination, hour of blooming, and natural crossing in rice. By Jenkin W. Jones. 13 p. (Issued by Office of cereal crops and diseases)

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